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Dewey, Melvil

Decimal classification and relativ index...14 ed. rev.

Lake Placid Club, N.Y.

1942

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Dewey Decimal Classification
1876-1979

Reel No.	Edition/Year
6	13th ed. (1932) - v. 1 Tables, v. 2 Index
7	14th ed. (1942) - v. 1 Tables, v. 2 Index
8	15th ed. (1951) - Standard (15th) Edition
9	16th ed. (1958) - v. 1 Tables
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1876-1979

Reel No.	Edition/Year
11	17th ed. (1965) - v.1 Tables, v. 2 Index
12	18th ed. (1971) - v. 1 Introduction/Tables v. 2 Schedules
13	18th ed. (1971) - v. 3 Index
14	19th ed. (1979) - v. 1 Introduction/Tables v. 2 Schedules
15	19th ed. (1979) - v. 3 Index

REEL

7

THIS REEL CONTAINS:

14th ed. (1942)
v. 1 Tables
v. 2 Index

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Volume 1
Tables

From a Painting by Elizabeth Gowdy Baker

Melvil Dewey

DECIMAL CLASSIFICATION

AND

RELATIV INDEX

BY MELVIL DEWEY A M LL D

OCLC INC.
OCLC INFORMATION CENTER
OCLC, INC.

EDITION 14

REVISED AND ENLARGED

VOLUME I: TABLES

FOREST PRESS INC

LAKE PLACID CLUB ESSEX COUNTY N Y

1942

INTENTIONAL SECOND EXPOSURE

From a Painting by Elizabeth Gowdy Baker

Melvil Dewey

DECIMAL CLASSIFICATION

AND

RELATIV INDEX

BY MELVIL DEWEY A M LL D

OCLC INC.
OCLC INFORMATION CENTER
OCLC, INC.

EDITION 14

REVISED AND ENLARGED

VOLUME 1: TABLES

FOREST PRESS INC

LAKE PLACID CLUB ESSEX COUNTY N Y

1942

Decimal Clasification and Relativ Index

Copyryt by

Melvil Dewey
1876, 1885, 1911, 1913, 1915, 1919
Library Bureau
1888, 1891, 1894, 1899
Lake Placid Club Education Foundation
1922, 1927, 1932, 1942

Modifying D C numbers

Confuzion and annoyance to thousands of uzers cauzd by printing unauthorized variations force the publishers to insist strictly on ful copyryt protection. Every library and individual uzer has, however, entire freedom to make such variations as he thinks he needs, under the simpl restrictions found necesary to protect the ryts of others. See p. 35²–38¹, Letter or simbol notations for chanjes or aditions.

Note on spelling of Ed 14

In response to the exprest sentiment of many D C users, the Decimal Classification Committee voted 16 May 1941 to adopt conventional spelling for the index of Ed 14. In deference to the lifelong convictions of the author, however, his statements regarding simpler spelling are reprinted in this edition without alteration. Statements regarding D C usage wil be understood, therefore, as applying to Tables and prefatory matter, but not to Index of Ed 14

EXPLANATION

This Clasification divides knowlej into 9 main clases numberd 1 to 9. Cyclopedias, periodicals etc. so jeneral as to belong to *no* one of these clases ar markt 0 (naught) and form a 10th clas. Each clas is similarly separated into 9 divisions, jeneral works belonging to *no* division having 0 in place of division number. Divisions ar similarly divided into 9 sections. This process is repeated as often as necesary. Thus 512 means clas 5 (Pure syence), division 1 (Mathematics), section 2 (Aljebra), and every aljebra is numberd 512.

Books on shelvs and cards in a clast catalog ar arranjed in simpl numeric order, all clas numbers being regarded as decimals. These Tables sho order of subjects. Thus 512 Aljebra follows 511 Arithmetic and precedes 513 Jeometry. Since each subject has a definit number, all books on any subject stand together.

Summaries 1st summary shows the 10 clases. 2d shows the 9 divisions of each clas, and is useful as a 1-paje birdseye view of whole skeme. Then follo 10 pajes, 1 for each clas, giving the 9 sections of each of its 9 divisions, and showing scope of the clas on a singl paje.

Tables These 3 summaries ar followd by ful Clasification Tables, which present in numeric order all clases, divisions, sections and subsections. Sinonimus terms, exampls, brief notes, dates and cachwords ar often aded to simpl heds to giv fuller and clearer idea of scope of each number. Therefore all references to numbers shud be lookt up in *ful Tables*, never in Summaries, which ar in effect a contents table of the ful Clasification.

Index After the Tables an alfabetic Index of all heds givn in Tables refers by clas number of each to its exact place in Tables. This Index includes also sinonims and many other entries likely to help a reader find his subject eazily. Even a uzer who knows just where to turn to his subject in Tables, may, by consulting the Index, be put on trak of valuabl allyd matter which he wud otherwize overlook.

Ful explanations Ilustrations and sugjestions for numerus applications of this sistem, and ful explanations of its nemonic and other important features ar givn in the Introduction on following pajes.

Supplementary tables Following the Relativ Index are 4 Supplementary tables giving lists of (1) subjects, with clas number of each, which may be subdivided geografically; (2) form divisions, which may be applied thruout the main Tables as needed; (3) languages, with their clas numbers, which may be further subdivided by adding figures given in Supplementary table 4; and literatures, with their clas numbers, which may be subdivided by adding numbers for literary forms as given under English literature; (4) philologic divisions, with figures to be added in subdividing any language in Supplementary table 3.

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FOREWORD TO EDITION 14

Dorkas Fellows died on October 10, 1938. She had been largely responsible for the memorial edition of the D C which was published in 1932. Her incapacity for service during her later years and her death, following that of Dr Melvil Dewey on December 26, 1931, brought to a close some of the policies and practices which had guided the revision of this monumental work.

The Lake Placid Club Education Foundation has always considered the D C an instrument of service to libraries, and to all persons interested in the organization and use of knowledge. It has not been a money making enterprise, tho it has, fortunately, received enough income to enable the work of revision to go on. In 1937 the Foundation desired to place the control of the work on a continuing basis involving not only its own membership but the Library profession. Accordingly, plans were devised for the creation of a new Committee to be in charge of the D C. That Committee, as then appointed, consisted of the following persons:

Milton James Ferguson, Chairman
Arthur E Bestor
Godfrey Dewey
T Harvey Ferris
Harriet D MacPherson
Ruth D McCollough
Margaret Mann
Deo B Colburn, Secretary

The professional members of the above Committee were nominees of the American Library Association; the others represent the Lake Placid Club Education Foundation. The Committee has remained without change except for the resignation of Miss Mann.

One of the early duties devolving upon the Committee was the selection of an editorial staff. Myron Warren Getchell has been continued in his former position as associate editor. Constantin J Mazney, formerly on the staff of the University of Michigan Library, was selected as editor. The staff has necessarily been kept at a minimum but has had the co-operation of librarians and especially of members of the staff of the Library of Congress.

The ideal the Committee has in mind is to produce a work which shall be of the utmost value to the Library profession, and to other classifiers of knowledge. The fourteenth edition cannot be called the final edition of the D C; a final edition will never be possible until men quit thinking and knowledge ceases to expand. It is the hope of the Committee, however, that this revision will prove to be acceptable to the profession, both through the extensions which have been incorporated and also through the reductions of sections which seemed to be needlessly elaborate. Certain supplementary tables which have lost their original importance or uses have been omitted in an effort to give the work greater cohesion.

Simpler or simplified spelling, a device which had the enthusiastic support of Dr Melvil Dewey, has been discarded in the Index, which had to be completely reset. Many plates have not been changed and could not be changed at this time without involving an expense beyond the power of the Committee to meet. In such tables the simplified spelling continues. Opinions rather widely expressed by librarians would seem to lead us to believe that standard spelling will facilitate the use of this publication. If such impression is in error, the Committee would be grateful for advice to the contrary.

The Committee looks forward to the publication at some future date of a so-called Library Standard Edition of the Decimal Classification. Much work must be done prior to its issuance. When it is published, it is contemplated that the entire work must be reset. At that time uniform spelling will, no doubt, be used thruout. The Library Standard Edition does not appear to be a possibility within the next several years.

It may not be appropriate to attempt a list of the expansions which this new edition of the D C presents, but the following notations will assist the enquirer: 301.15; 312; 325; 330–339 expanded to 38 pages; 355–359, 12 pages; 364–365, 10 pages; 659.1, 4 pages; 700–770, 147 pages; 931 and 951; and important expansions from 975 to 979. All in all we believe that Edition 14 of this work will prove itself to be a worthy and dependable successor of its predecessors.

The Committee considers this work a co-operative effort, published mainly for the benefit of the Library profession. It is grateful to the librarians who have helped make it what it is and earnestly solicits their continued interest and assistance. The hospitality of the Library of Congress, which houses the Decimal Classification Editorial Office, is gratefully acknowledged.

MILTON JAMES FERGUSON,
Chairman

March 11, 1942

INTRODUCTION

[1][Simpler spelings ar strongly recommended for jeneral adoption by both American and English filolojic associations, including nearly all prominent skolars in English now living.

The speling of this introduction has many more chanjes than we recommend for jeneral use at once. For convenient reference we hav included in 'Simpler speling reazons and rules' (p. 49–63) the famus 12 words adopted in 1898 by the National Education Association for all its official printing and correspondence, and adopted later by hundreds of periodicals, colejes and normal skools; also the 30 words, as a better tipical list with which to begin simpler speling; also the S S B rules, from which one shud select those which most appeal to him; also the 10 joint rules of American and English filolojists, and selections from rules of U S Geographic Board. From these one may choose chanjes he is willing to make, knowing how ampl authority is behind them. We recommend that each one convinst of the importance begin with a few of these chanjes, ading others from time to time as he and his correspondents becum familiar with the new forms. That it 'looks queer' is admittedly the only argument left to objectors. This introduction is speld to show how it wil look if practicaly all these recommendations ar uzed. Sum with specialy strong vizual prejudis wil hav attention distracted from the matter to the speling, but if with an open mind they wil try to concentrate on the meaning, they wil be surprized to find how quikly the new forms wil cease to annoy. Then if they continue reading them they wil soon be surprized to find that the old absurd common speling wil annoy. There ar comparativly few simpler spelings in Tables or Index but we decided to show in Introduction how extreme chanjes wud look]

Orijin and growth The plan of this Clasification and Index was developt erly in 1873, the result of long study of library economy as found in hundreds of books and pamflets, and in over 50 personal visits to libraries. This study convinst me that usefulness of libraries myt be greatly increast without aded expense. Only a fraction of the servis posibl cud be got from them without clasification, catalogs, indexes and other aids, to tel librarians and readers what they containd on any givn subject; yet, by methods then uzed, this cud be dun satisfactorily only at a cost so great as to be prohibitiv to all but a few welthy libraries. With rare exceptions, libraries wer growing rapidly. Catalogs, made at great cost, soon became antiquated. Methods uzed involvd frequent rearranjement, renumbering and remarking of books, and of necesity remaking of catalogs and indexes, as the only escape from a confuzion that seriusly cripld usefulness. In this costly repetition, work of previus librarians was larjly lost. The great need was a sistem which wud enable each to stand on the sholders of his predecessors, and fully utilize their labors; which wud make work dun today permanent, insted of sumthing to be superseded in so few years as not to be worth doing in the best way; which wud supply the best applyances, insted of leaving yung librarians not only to lern how to work, but to make all their own tools.

Practical use for 54 years proves that this sistem wil accomplish this result; for with its aid catalogs, shelflists, indexes and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when dun, they ar better and vastly more permanent. Practical utility and economy ar its keynotes and no theoretic refinement has been allowd to modify the skeme, if it wud detract from usefulness or ad to cost.

[1] See note on spelling of Ed 14 on back of title-page

It was chiefly necesary to find a method that wud clas, arranje and index books and pamflets on shelvs, cards of a catalog, clippings and notes in scrapbooks and index rerums, references to all these items, and indeed any literary material in any form, as redily as an ordinary index gyds to proper paje of a bound book. This difficult problem was solvd by uzing no reference marks except the simplest simbols known to the human mind, arabic numerals with their uzual arithmetic values, and by aiding their unequald simplicity by many practical nemonic [mnemonic] devices.

Tho the importance of clasification was recognized, the filosofic sistems proposed wer so difficult fully to understand or apply that not 1 person in 1000 cud uze them practicaly. Decimal Clasification simplicity and even more its Relativ Index hav made this work 10-fold eazier. In recent years, use of the sistem has spred rapidly in all civilized cuntries, meeting success in thousands of different applications. In its simpl form a skoolboy can quikly master it and keep for instant reference not only his books but every note, clipping or pamflet. Almost every profession and occupation has lernd its wonderful laborsaving powers. It is in daily use by miriads of business and professional men who wud never even attempt to understand or uze the old sistems.

By mere adition of figures, without chanjing this shorter form, this very simpl sistem is redily made to record the utmost refinements of specialists, and the Relativ Index, as simpl as a, b, c, sends the novis to the exact place where the expert has clasifyd the matter sought. Thus 942 is history of England, and 942.99055 is history of County Pembroke in Wales, under Elizabeth, 5th of the Tudors. A colon between 2 numbers to mean 'in relation to', and other combining simbols for time, languaj etc. make of the sistem a compact shorthand for each fact. (See p. 40[3]–43[1].) But this brevity is les important than the eaz with which matter so markt can be arranjed (giving figures and decimal point their common arithmetic value), stored as compactly as wisht and found again in the least posibl time.

The sistem has been found equaly valuabl for cataloging, indexing, analyzing and summarizing, and for clasifying, numbering and arranjing books and pamflets on shelvs. For notes on other uses, see p. 43[2]–45[8].

The 1st edition, publisht in 1876, 12 pajes of tables containing 1000 sections, was criticized as altogether too elaborate for even a larj library. As fast, however, as the Relativ Index with its remarkabl powers became known, the rapidly increasing uzers askt for further subdivisions, til Tables hav grown from 2600 entries in Index of 1876 to 43,000 in this edition 12, becauz it has been found so eazy to gain the admitted great advantajes of close clasification, and yet, by means of this Index, avoid the old difficulties.

Extent of use The rejister of libraries which hav actualy adopted it, tho growing rapidly, is incomplete. Libraries often uze the sistem for many years before we lern the fact. We rejister all byers of the Clasification, so far as known, but do not assume that a library has adopted the

sistem becauz it has orderd the book. A L A Bulletin, Sep. 1926, p. 167, estimates a use by about 14,000 libraries. There is also an immense use (for which not even approximate statistics can be furnisht) by individuals, with their private, business and professional colections of books, pamflets etc., and in their correspondence and notes files. The sistem has been adopted, not only thruout U S, but in other parts of North America, in South America, in many European cuntries, and, stil more distant, in Asia, Hawaii, Philippines, Java, Australia and Africa, and the Tables ar known to hav been translated, either wholy or in part, into French, German, Italian, Spanish, Portuguese, Norwegian, Russian, Hungarian, Bohemian, Chinese and Japanese.

The table below shows the growth of the 12 editions.

		Number of pajes					
Edition	Date	Preface, etc.	Tables	Index, etc.	Total	Increase	Copies printed
1	1876	12	12	18	42		1000
2	1885	66	162	86	314	272	500
3	1888	4	227	185	416	102	500
4	1891	41	234	191	466	50	1000
5	1894	"	235	"	467	1	2000
6	1899	"	260	210	511	44	7600
7	1911	48	420	324	792	281	2000
8	1913	"	462	340	850	58	2000
9	1915	"	465	342	856	6	3000
10	1919	"	517	374	940[1]	84	4000
11	1922	61	551	376	988	48	5000
12	1927	67	683	491	1243	255	8000[3]

What is the sistem? A Subject Clasification with a Relativ Index[2] so numberd or letterd that reference is compact, accurate and quik, is the essential feature; anything beyond this is merely applying this plan with varius helps and accessories. Any subject clasification with a *relativ* index in which the entry indexes a book in the ordinary way, and also indexes shelvs, cards, clippings or any other literary material, is a form of this sistem.

[1] Thru mistaken numbering printed as 936.

[2] Tho the author is interested only in the usefulness of the sistem, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the sistem — the Relativ Index, on which all else hinjes — had ever before been uzed as here to index by a singl reference most diverse material. Relativ location had been uzed, but not in the present combination with the subject index, which givs it most of its value. The Clasification Tables, while adopting sugjestions from many sources, ar orijinal in their sistem of arranjement and notation, and in many minor features. The decimal form and many nemonic features hav not been found in erlier use, tho since their invention in 1873 these as wel as the Subject Index and other features hav been very frequently copid, often with, but oftener without, aknowlejment of their source. But we ar glad to find this sistem, which has cost so much labor, doing good servis even for those who neglect to mention where they found so valuabl a laborsaving literary tool.

[3] 1340 aditional copies printed in 1930; edition 13, 8000 copies — Editor

Notation We devized and experimented with several notations by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, 50, 100 and 150, yet none seemd good enuf to warrant publishing details, except that here printed, based on simpl arabic numerals with their uzual decimal powers. International adoption of this sistem is larjly becauz no one ever complains that any clasification is too simpl, while there is constant complaint of complexity. Decimal simplicity has so commended itself that many think of it as the only form, tho obviusly it wud be just as much a 'relativ index sistem' if the clasification wer wholy markt by letters or other simbols.

The Subject Index is the simplest application of a, b, c, the simbols next in simplicity to 1, 2, 3. This use of the simplest 2 sets of simbols known, with their common meanings, has givn our notation its worldwide reputation as the simplest yet devized.

Best known decimal form Decimal form means simply that heds ar groupt and numberd with common arithmetic figures uzed decimaly. This, the only decimal form thus far carefuly elaborated and publisht, is commonly spoken of as if it wer the only posibl form of our orijinal plan; tho obviusly an infinit variety of 'relativ index sistems' in decimal form *cud* be made by filling the outline with different heds, or with the same heds in different order.

To make out new heds involvs labor and cost vastly beyond the dreams of any person who has not tryd exactly this work. Time actualy spent on tables here printed, by varius committees and individuals, totals hundreds of years and has cost an immense sum. Uniform and urjent advice of the experienst is to adopt a poorer skeme alredy made rather than undertake so herculean a labor. When dun, the maker may posibly be better suited with it, but few if any others wil be. It is wizer for anyone whose time is of value, to uze it in sumthing more practicaly useful to himself and his library than in trying to construct a 'satisfactory' skeme of clasification. No one yet ever wholy suited himself or anyone else, and probably no one ever wil. By adopting this alredy workt out he saves much time and money, and gains the immense advantaj of uzing a sistem in common with thousands of others, so that he may utilize their labors and investigations and share with them economies of cooperation.

Relativ Subject Index This alfabetic Index, the most important feature of the sistem, consists of hedings gatherd from a great variety of sources, as uzers of the sistem hav found them desirabl in 54 years experience. After all these efforts, many new heds ar aded in each new edition.

The Index gyds in both numbering and finding books. In assyning numbers, the most specific hed that wil contain the book having been determind, reference to that hed in Index givs proper clas number. Conversely, in finding books on any givn subject, reference to Index givs number under which they ar found on shelvs, in shelflist, or in clast catalog. When any new subject cums up, interline it and its sinonims in Index,

with clas number decided on, so clasifyer may be uniform with himself in future work.

The Index givs similar or sinonimus words, and the same words in different connections, so any intelijent person wil surely get the ryt number. A reader wishing to know sumthing of the tarif looks under T, and, at a glance, finds 337 as its number. This gyds him to shelvs, to all books and pamflets, to shelf catalog, to clast subject catalog on cards, to clast record of loans, and, in short, in simpl numeric order, thruout the whole library to *anything* bearing on his subject. If he turns to Tables, he sees that it means clas 3, Sociolojy; division 3, Economics; section 7, Protection and free trade; but the number alone is enuf to clas the book or find it, for either clasifyer or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he wud hav been referd to 337, or sum one of its subdivisions.

Had he lookt for 'railroad' he wud hav found after it 22 separate entries, each preceded by a word or fraze indicating the faze of the subject in the skeme. A book on railroads may treat of the desirability of government ownership, control etc. and then is clearly a question of social syence; or it may be a practical handbook for an employee, explaining business methods of railroading, running trains, handling freight, etc. when it is as clearly one of the useful arts. The clasifyer knows to which of these heds his book belongs, and the reader knows in which of its fazes he wishes to examin the subject. Moreover, 3 and 6 beginning the numbers clearly indicate caracter of each clas. But even if significance of these figures is entirely disregarded, no confuzion results, for, on consulting the numbers in catalog, in skeme, or on shelvs the difference is clearly seen. In other cases, it is more useful to keep books on the same subject together, tho treated from different standpoints. A glance at the Index tels either reader or clasifyer which plan has been adopted.

All topics in blakface typ in Index ar further divided in Tables, where one may see the subheds. This saves reprinting all these subdivisions, which wud increase Index bulk many-fold; e. g. if one having a book on 'prison labor' looks in the Index for 'Convict labor' or 'Prison contracts', he finds at once its special number 331.51; but if, on the other hand he thinks to look only for jeneral subject 'Labor', he finds in blakface typ the entry 'Labor, political economy, 331', and turning to Tables he finds under 331 the subdivision '331.51, Convict labor', the exact topic in hand.

The greatest objection to a clast catalog has always been the difficulty in knowing just where to clas a book and just where to look for it when again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work for many years, there was a degree of uniformity; but even then there was danjer of looking at the same book at different

times from different viewpoints, thus cauzing confuzion. When the daily pres is ful of one faze of a subject, tendency is strong to clas all books on this subject from current viewpoint; and next year, if a different side of this same subject is before the public, there is same tendency to clas books from new viewpoint, thereby separating similar books and bringing together books on different fazes. But fortunately, practical usefulness does not require that the ideas of this or that one be followd, but only that books of same caracter be always put in same place, and that there be sum means of knowing redily what that place is. The Relativ Index, with its cachwords, was desynd and is found in use to meet both these requirements, for it insures that books on same faze of any subject cuming before the clasifyers shal be assynd to same place, and that any reader seeking these books shal be referd instantly to that place. If this is dun, all requirements of a good clasification ar fild. If it is not dun, the sistem is a failure; for the only real test of any skeme is its helpfulness to its uzers.

Sum prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to clas a book at first and where to look for it ever afterwards, has removed their strongest objections. Certainly it wud be imposibl to make an Index more compact or eazier of reference.

This Index allows a great part of the work of clasifying to be dun in advance by experts in larj central libraries with ampl resources, thus securing, at a mere fraction of uzual cost, better and more uniform results than wud be posibl to the ordinary clasifyer and reducing labor to much narrower limits than ever before.

To these thousands of subjects hav been carefuly assynd their individual numbers, many of them after long consideration and consultation with specialists. No one person is lerned enuf to clas wizely books on all subjects and syences; but botanists can assyn all botanic subjects to the ryt number, mathematicians all mathematical topics, and thus the Index wil in time becum as accurate as the best skolarship of the day can make it. Even if the decision reacht is not always wizest, all practical purposes ar servd, becauz, as each clasifyer copies the number from same Index, all books on that subject ar together; and, as each reader gets his number from this same Index, he goes directly to the book he seeks.

What Relativ Index includes The Index, containing 43,000 entries and constantly being enlarjd by ading new subjects, aims to include all topics exprest or implyd in Tables, together with every corresponding sinonim likely to be sought, but does not include most names of cuntries, towns, animals, plants etc. except when mentiond in Tables; e. g. it can not enumerate all species of trilobites, but when clasifyer has found from proper reference books that Remopleurides is a trilobite, the Index sends him to 565.393, and he can clas his monograf on that subject.

Tables The essential complement of the Subject Index is the Tables of Clasification, so mapt out as to show in 4 ways — i. e. by size of typ, face of typ, indention, and number of figures prefixt — each subject's rank in the Clasification.

The field of knowlej is divided into 9 main clases, numberd 1 to 9, and cyclopedias, periodicals etc. so jeneral as to belong to *none* of these clases ar markt 0 (naught) and form a 10th clas; e. g. clas 1 is library of Filosofy; clas 5, library of Syence; clas 9, History, etc. These special clases or libraries ar then considerd independently, and each is separated again into 9 special divisions of the main subject, numberd 1 to 9, as wer the clases, jeneral works belonging to *no* division having 0 for their division number. Thus 59 is division 9 (Zoolojy) of clas 5 (Syence). A 3d division is then made by separating each of these divisions into 10 sections, numberd in same way with 0 and the 9 dijits; and this decimal subdivision is repeated, til it secures as many subsections as may be needed in any topic. Thus 513 is section 3 (Jeometry) of division 1 (Mathematics) of clas 5 (Pure syence). This number, giving clas, division, section and subsection, if any, is cald the clas number, and is applyd to every book and pamflet belonging to the library. All jeometries ar thus numberd 513, all mineralojies 549, and so thruout the library all books on any givn subject bear the number of that subject in this skeme.

Where 0 occurs before the decimal point in a clas number, it has its normal zero value. Thus a book numberd 510 is clas 5, division 1, but *no* section; i. e. treats of division 51 (Mathematics) in jeneral, and is limited to no 1 section, as is jeometry, markt 513. 500 indicates a treatis on syence in jeneral, limited to no division. 0 occurring in the 1st place wud in the same way show that the book was limited to no clas; e. g. a jeneral cyclopedia which treats of all 9 clases.

With the same 'jeneral' sense, 0 is often uzed to indicate chanje in caracter of subdivision, meaning in this case 'basis of subdivision chanjes at this point', i. e. figure (or figures) following 0 apply to what precedes *in jeneral*, e. g. 505 indicates syence in *jeneral* treated in the form of a periodical. In history, clasification is by cuntries (i. e. *jeografic*) and as minute jeografic divisions ar needed for travels, gyd books, and varius other uses, the figures 1–9 ar jeneraly uzed for jeografic subdivisions and again for further jeografic subdivisions, as far as needed, and 0 followd by another figure for time division, i. e. the figures before the 0 indicate the locality as a whole, while figures after the 0 indicate the special time at which the history of the locality is being considerd; e. g. 942.06, consisting of 942 (*jeografic* division) and 06 (*time* division), means history of England in *jeneral* in time of the Stuarts, while 942.6 and 942.67 mean respectivly history of eastern England and history of Essex co., to which the same time division may be aded, giving 942.606 and 942.6706 as the history of those localities under the Stuarts. As any subdivision may, by ading figures 1–9, be givn 9 further subdivisions, any desired degree of minuteness may be secured in clasing special subjects.

First subdivision under many rubrics is used for General and theoretic questions to provide for such specific topics as ar common to all or most of the principal subdivisions of a relativly broad subject.

Coordination Theoreticly division of every subject into just 9 parts is absurd. Practicaly it is desirabl to clas as minutely as posibl, without use of aded figures; and decimals, on which our skeme hinjes, allow 9 divisions as redily as fewer. This has proved wholy satisfactory in practis, tho apparently destroying proper coordination in sum places.

Where more than 9 divisions ar needed the difficulty is commonly obviated by grouping on singl numbers the subjects most closely allyd, or by assyning 1–8 specificly to most important subjects and grouping minor subjects on 9 as 'Other.' Since any of these groups may be further subdivided for specific topics as needed, provision is thus made for an unlimited number of subjects.

As in every skeme, many minor subjects ar under jeneral heds to which they do not strictly belong. In sum cases, these heds ar printed in distinctiv typ; e. g. 829 Anglo-Saxon, under English literature. The rule has been to assyn these subjects to the most nearly allyd heds, or where it was tho't they wud be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it wil be supplyd as soon as discoverd, for we intend to provide in the Tables a place for every known topic.

New subjects A new topic is always closely related to sum existing hed. If there is no blank number availabl it is combined with the hed nearest allyd, and, when important enuf, distinct provision for the new cumr is made by ading another decimal. The sistem is thus capabl of unlimited expansion, and can never break down for lak of room for growth.

Choice and arranjement of heds Detaild explanation of selection and arranjement of the many thousand heds wud be tedius; but everywhere filosofic theory and accuracy hav yielded to practical usefulness. The imposibility of making a satisfactory clasification of all knowlej as preservd in books, has been appreciated from the first, and theoretic harmony and exactness hav been repeatedly sacrificed to practical requirements.

Sequence of allyd subjects Wherever practicabl, heds hav been so arranjed that each subject is preceded and followd by most nearly allyd subjects, and thus aded convenience is secured both in clast catalogs and on shelvs; e. g. Bilding (690) follows Mekanic trades (680) at end of Useful arts, and Arkitecture follows at beginning of Fine arts.

Students of Biolojy (570) find fossil life or Paleontolojy (560) before, and vejetabl life or Botany (580) after, this followd in turn by animal life or Zoolojy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicin, thus giving a regular growth from fossil plant thru vejetabl and animal kingdoms to living man.

Cachtitles In naming hedings, strict accuracy has often been sacrificed to brevity, for short familiar titles ar more important than that terms chosen shud express fully and exactly caracter of all books clast under them. Many subjects, apparently omitted, wil be found in the Index,

assynd, with allyd subjects, to a hed which bears the name of the most important only. Reference to the Index wil decide at once most doutful points.

Form distinctions The clasification is mainly by *subject* or *content* regardless of form (see p. 29[3]) but an aded form distinction for jeneral treatises is found practicaly useful.

Thus, in Syence there ar many compends, dictionaries, essays, periodicals and socyeties, treating of Syence in jeneral, and so having 0 for the division figure, but treating it under different forms, and therefore divided into sections according to this form: 501 for filosofy or theories of Syence, 502 for compends, 503 for dictionaries, etc. This treatment is as nearly as practicabl, uniform in all clases. Creasy's '15 decisiv battles' is 904, the 1st figure being 9, becauz the book is clearly history; the 2d figure 0, becauz limited to *no* division of clas 9; and the 3d figure 4, becauz the book is a colection of essays.

The 10 main clases ar regularly divided by form, e. g. 809, history of literature in jeneral. For divisions, sections or subsections having *enuf* jeneral material to make such division advizabl, form numbers, preceded by 0, may be uzed (e. g. 820.9, history of English literature; 821.09, history of English poetry), except when 0 and the following number hav been otherwize assynd, e. g. 821.04 English liric poetry, *not* essays on English poetry; 942.05 England in time of the Tudors, *not* a periodical on English history. A history of English literature is 820.9, not 809, becauz every book belongs to the *most specific hed* that wil contain it; so 809 is limited to histories of literature in jeneral. Books treating of many clases, such as jeneral cyclopedias or periodicals, go in clas 0 and ar then divided by form into cyclopedias, periodicals, socyeties or newspapers.

Do not confuze form number 07, meaning 'methods of study or teaching', with number for same subject under 375, which is for its value as a means of education, or for its curiculum place.

These form distinctions ar introduced at the beginning of the clas becauz the number of jeneral works is larj, and these 1st numerals wud otherwize be unuzed.

Form divisions always hav the same set of numbers, preceded by 0, i.e. 1 filosofy, theories etc.; 2 compends, outlines; 3 dictionaries, cyclopedias; 4 essays, lectures, letters etc.; 5 periodicals, magazines etc.; 6 socyeties, associations, transactions, reports etc.; 7 education, study, teaching, training etc.; 8 poligrafy, colections etc.; 9 history. Thus a periodical on a subject has the subject number followd by 05; e. g. a periodical on public helth, 614.05.

But if the number alredy ends in 0, 0 is not repeated before form-division figures; e. g. a zoolojic magazine is 590.5, not 590.05.

Minute clasing On first publication in 1876, a common criticizm was that 1000 heds cud never be successfuly uzed, however desirabl so close clasification myt be. As soon, however, as actual experience proved it as

eazy to uze 1000 heds in the new sistem as 100 in the old, the obviusly great practical value of close clasing led one uzer after another to urj strongly publication of more subdivisions. Minute as ar many now givn there ar none that sum hav not askt for and almost none that others hav not declared needless. Subdivisions ar made in such a way that one may uze all, or any part and ignore the rest without difficulty or confuzion, thus allowing each to uze minute subdivisions where he wishes or needs them, without being forst into refinements in subjects where he has few books or litl interest. Since the degree to which any skeme shal be applyd is optional with each clasifyer and close analisis is useful to everyone in defining content or in clarifying differences between related subjects, even elaborate skemes ar printed in ful if no essential objection has been bro't against them by the best qualifyd critics. The 1st 3 figures only may be uzed when preferd, and the rest show the scope of the subject. On many topics minute subsections ar printed simply for this purpose, and for use in indexing periodicals and socyety transactions, and in keeping notes. Note typ is uzed for topics clearly useful only to specialists or as showing scope. Many others probably belonging in same category, if doutful ar in regular typ of their grade.

The advantaj of close clasing is unquestiond, if the uzer knows just what it is. With this plan it is not only practicabl, but comparativly eazy. If there ar only 10 books on a givn topic, it is useful to hav them in groups amung themselvs, for otherwize they wud hav only accidental order, which is of servis to no one. A reader wishing a specific book shud go, not to shelvs, but to catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to its exact place by the Subject Index. If he wishes to study the library's resources at the shelvs, he wil be *greatly helpt by minute clasing*. A teacher showing his pupil the material on any subject wud, if there wer only 20 books, surely *put together* those covering same points, even if there wer only 2. Much more shud librarians group closely their greater colections, that readers may gain sumthing of the advantajes of an experienst gyd.

Thus every specialist has his own special library. If a student of syence in jeneral, he is sent to clas 5; if his department is zoolojy, his library is 59; if his specialty is shels, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject, being a library by itself, shows resources and wants as no catalog can. A catalog can not be made to take satisfactorily the place of handling books themselvs. This advantaj weighs most in a colej or socyety library, where many go to the shelvs; but even if only librarians ar admitted, close clasing is worth its cost becauz of aded power givn.

Tentativ tables More and more minute subdivisions hav been specialy cald for til the 1000 heds of 1873, with 2600 index entries in edition 1,

hav increast til they command 43,000 index entries, in edition 12. After getting many sugjestions, sumtimes hundreds, for aditions or further subdivisions of sum subject, we draft a skeme and test it on a sampl colection. To get larjer cooperation in perfecting it we sumtimes print the new draft in Tables without including its new words in Index, so every uzer wil see what is proposed and if interested may test it on his own work and submit sugjestions for improvement. Then in the next edition, with this great help, needed revisions can be made and all new words inserted in Index.

As result of agreement between Institut International de Bibliographie and ourselvs (see p. 40) we hav included in edition 12 many I I B expansions, while sum other expansions recently prepared by us hav not yet, for lak of time, been submitted to I I B and must therefore, strictly speaking, be regarded as tentativ til accepted by that body, but as these expansions wer developt with view to such acceptance we look for litl chanje, and their larj number has made it impractical to designate them.

Nemonics [mnemonics] Heds hav sumtimes been arranjed to secure nemonic aid in numbering and finding books without the Index; thus China has always number 1. In Ancient history, it has the 1st section, 931; in Modern history, under Asia, it has 951. Similarly the Indian number is 4; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; Russian, 7; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languajes or cuntries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This nemonic principl is specialy prominent in Filolojy and Literature, and their divisions, and in *form* distinctions uzed in the 1st 9 sections of each clas. Filosofy, methods or theory, occurring as a hed, is always 1; dictionaries and cyclopedias ar 3; essays, 4; periodicals, 5; associations, socyeties and institutions, 6; education, 7; poligrafy or colections, 8; history, 9. In numerus cases several minor heds ar groupt together as Other, uzualy numberd 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals ar 5, Asia is 5, Oratory is 5, etc. Even wer it posibl, to limit 5 to Italian wud waste numbering material, and results wud not justify cost. The purpose is to giv practical aid, not to follow fanciful theory. A clasifyer marking a French grammar, remembers that all Filolojy begins with 4, and, as French is always 4 and grammar 5, he knows the number *must* be 445. Italian (5), poetry (1), is plainly 851 with no danjer of being mistaken for 'poetry of grammar' or 'theory of Asia,' becauz the numbers also hav those meanings. This feature is an *aid*, not regular method, and in all doutful cases one refers at once to Index or Tables. Sugjested difficulties ar uzualy creations of injenius theorists and not outgrowth of practical experience.

Wherever practical, this nemonic principl is uzed in subdividing sections. 558, Jeolojy of South America, is subdivided by ading the *sections*

of 980, History of South America. Jeolojy of Brazil then *must* be 558.1: nemonicly, the 1st 5 is Syence; 2d 5, Jeolojy; 8, South America; and 1, Brazil. Any library attendant or regular uzer of the skeme recognizes 558.1 at a glance as Jeolojy of Brazil. This nemonic feature occurs in several hundred places, and is of great practical utility in numbering and finding books without catalog or index, and in determining caracter of any book simply from its call number. Extent of use is shown in 5 tables appended to main Index, giving alfabetic lists of (1) subjects, with clas number of each, which may be subdivided jeograficly; (2) form divisions, with figures to be aded in making such division; (3) languajes, with their clas numbers, which may be further subdivided filolojicly by ading figures givn in Index table 4; (4) filolojic divisions, with figures to be aded in subdividing any languaj in Index table 3; (5) literatures, with their clas numbers, which may be further subdivided by ading form divisions from English literature.

As in close subdivision, wish for nemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptibl: e. g. whether in filolojy order shud be French, Spanish, Italian, or French, Italian, Spanish. In such cases nemonic numbers wer givn preference, and 54 years use has proved this wizest. Great gain, beside eaz of remembering, results from this *uniform* use of same numbers with same meaning whenever similar division is made. Wherever division by languajes or cuntries is made, it follows filolojy or history numbers, and in Tables, the note 'Divided like 900' fully takes the place of reprinting all history subdivisions. This saving justifys use of these numbers in sum cases, even where a sumwhat different order myt seem more nearly fitted to the special case; e. g. in 342, constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) wud be better than our order, which separates them both from England and from each other. Stil by following the uzual 'procrustean' numbers, many topics can be subdivided minutely without further study, by simply applying history or languaj subdivisions. A singl ilustration of the astonishing power this principl givs wil suffice, tho thousands myt be givn: 016 is 'Bibliografy of special subjects, divided like main clasification', therefore by aid of tables under 581, 016.581974742 redily translates itself to all uzers into 'Bibliografy of flora of Albany co., N Y'. While these 12 figures myt never be uzed, if a specialist wishes minute division, it is redy to his hand, conforms to Index, and wil be clearly understood by anyone familiar with our plan. A specialist wud in such cases probably adopt a contraction for his long number, and uze in ful only the minute divisions. See p. 38[2] for such contractions.

Decimalism Utility has not been sacrificed in order to force subjects on the 'decimal procrustean bed'. *Decimals hav been uzed as servants, not as masters.* When subjects ar combined or separated into just

10 heds, it has been from no necesity of the skeme, but becauz it seemd most useful, all things considerd. In many cases there wer orijinaly only 3 to 7 heds insted of 10; but uzualy, during years of testing before publication, it proved advizabl to divide sum of these heds, as it took no aded space or labor. On the other hand, there wer cases where more than 10 heds seemd more natural; and, as any number up to 100 is provided for by ading one decimal, this was dun in most cases. As only 1000 sections wer first printed, it was often necesary to put 2 or more closely allyd topics together under the same number, as must stil be dun whenever a library limits number of figures uzed to 3; but during 54 years use subdivisions hav multiplyd, til now nearly every topic has its own special number. The skeme givs us for each topic, as it wer, a case of 9 pijeonholes, with a larj space at the top; and we uze them as every practical business man uzes such pijeonholes about his desk. If, as in 220, there ar les than 9 main topics, it is often convenient to uze the extra spaces for subdivisions. Thus we keep separate, under Old Testament, historic, poetic, and profetic books; and under New Testament, the Gospels, Epistls and Apocalips. Spaces ar there, and it is convenient to uze them for jeneral works on those groups — a reason that experience proves a good anser to the charj of lak of coordination, tho indention and typ in Tables make that charj baseless. Then in 280, having more than 9 topics, if we ar uzing only 3 figures we put Congregational in same space with Presbyterian, and small denominations together in the last box, just as a business man puts his papers in his pijeonholes. If he insisted on having a different case made to order for each use, it wud cost over twice as much; he cud not group them together or interchanje them, and they wud not fit offis shelvs.

There has been perverse misapprehension of this feature, and critics oftenest stumbl over 'procrustean 10'. In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It can not cum to yur door nor wait yur convenience, as does the automobile; it can not go to the fields for its loads of produce; it can not turn out for obstacls; but *becauz it is procrustean* it can do its larj-scale work much better and quicker and cheaper. The paralel cud be fairly extended to many other cases, but any tho'tful mind wil recognize that the economy and eaz of working the Decimal sistem ar larjly dependent on its being procrustean. To this we owe much of the great simplicity of the Relativ Index, many nemonic correspondences, and the useful 0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of languaj and form in Filolojy and Literature, and scores of similar advantajes, depend wholy on 'procrustean 10', or else on sum other number equaly procrustean, but lacking the advantajes of exact correspondence to our arithmetic.

Relativ location Economy and simplicity cald not only for the Subject Index, but also for sum plan of consolidating the 2 sets of marks

previusly uzed; one teling *what* subject a book treated, the other *where* the book was shelvd. By relativ location and decimal clas numbers we make our simpl arabic numerals tel of each book and pamflet, both *what* it is, and *where* it is.

In fixt relation, to find book, pamflet, clipping or note is like finding a man when yu know his town, street, hous and room.

In relativ location it is like finding a soldier if yu know his army, division, rejiment and cumpany. If John Smith is 3d man in 2d row of Cumpany B, rejiment 69, 4th division, whether the rejiment is in camp, on parade or on march, his place is not determind by the bit of ground on which he stands, but by his relation to the rest of the army. If soldiers ar ded and in the cemetery they ar as eazily found by fixt as by relativ location. But if the army is alive and militant, as every library or private working colection o't to be, its resources shud be *findabl* whether in camp, on march or in action.

In arranjing books on shelvs, the formerly common absolute or fixt location by shelf and book number is wholy abandond, relativ location by clas and book number being our chief feature. Accumpanying clas number is the book number, which prevents confuzion of different books on the same subject.[1] In finding books, numbers markt on baks ar followd, the upper being the clas and the lower the book number. Clas is found in its numeric order amung clases, just as shelf is found in fixt sistems. Shelvs ar not numberd, as increasing different departments, opening new rooms, and any arranjing of clases to bring books most circulated nearest delivery desk, wil at different times bring different clas numbers on any givn shelf. New books, as recievd, ar numberd and put in place, in same way that new titles ar aded to card catalog.

Thus all books on any givn subject stand together, and no aditions or chanjes ever separate them. Not only ar found together all books on subject sought, but most nearly allyd subjects precede and follow, they in turn being preceded and followd by other allyd subjects as far as practicabl. Readers not having access to shelvs find short titles arranjed in same order in shelflist, and ful titles, imprints, aded subject entries, references, notes etc. in clast catalog.

Parts of sets, and books on same or allyd subjects, ar never separated as they ar sure to be, sooner or later, in a library arranjed on fixt plan, unless it be frequently rearranjed and recatalogd, a procedure too expensiv even for very welthy libraries. Relativ sistem clas and book numbers remain unchanjed thru all chanjes of shelving, bildings or order of clases.

Amung hundreds of points raizd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to erlier sistems was that in this relativ location a book which this year

[1] For sugjestions regarding best forms of book numbers see p. 32[5]–33[7].

stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, becauz of uneven growth of parts of the library. This slyt objection, however, inheres in any sistem where books ar arranjed by subjects, rather than by shelvs, windows, doors, and similar non-intelectual distinctions.

Sizes on shelvs Most libraries hav abandond close distinction of sizes. It is true that this distinction saves a litl space, but at far too great a cost; for every distinction of sizes makes a paralel clasification. If books ar groupt in 5 sizes, one must look in 5 places before he can be sure of having seen them all.

It is better to shelv octavos and all smaller books together in 1 series, and arranje in paralel libraries only quartos and folios, which ar too larj to stand on regular shelvs, showing series in which any oversize book is put by a size letter prefixt to the book or clas number; e. g. 749 qA or q749 A shows that book A on Artistic furniture is too larj for regular shelvs, and so is placed in q or quarto series. Or uze a wood or pasteboard dummy to show location of a book not in its regular place. But, however solvd, size problems ar no more trublsum with Decimal than with any other clasification.

Catalogs

Any sistem of catalogs may be uzed with this skeme, but the 2 essentials of even the simplest sistem ar name or author catalog and shelflist. The chief uses of this sistem for catalogs ar for shelflists and for clast catalogs on cards.

Name catalog In this, arranjed strictly by names of authors and of persons or places writn about, the clas number holds a subordinate place, yet is constantly useful. If printed, it appears in a singl colum as in the Relativ Index, and where there is no subject catalog one can rapidly pik out books on any topic by glancing down colum for clas number wanted.

Shelflist Here clas number is again hyly important, as it makes this list the most useful form of brief subject catalog, giving author's name and brief title of every book on specific subject bearing that clas number.

Clast catalog In the clast card catalog the clasification is mapt out abuv the cards by projecting gyds, making reference almost instantaneus. Subjects ar arranjed in 1, 2, 3 order of their decimal subject numbers exactly as in clas tables, and cards of each subject ar then subarranjed alfabeticly by authors (or, in sum cases, e. g. biografy or local history, by subjects) or cronolojicly, or by book numbers.

The printed subject catalog on this plan is also most compact and satisfactory in use. Under each clas number ar givn the library's resources on that subject, the heding giving, for convenience, name as wel as number of subject; e. g. '513 Jeometry'. Jeneral notes ar printed in finer typ under

jeneral heds, and a relativ index at the end shows just where to open the book to find any topic. As clas numbers ar put in place of paje numbers, this index servs for *any* catalog, list or library arranjed on this plan.

Dictionary catalog The dictionary catalog is as eazily uzed with this sistem as with any other, and is at present on the crest of its wave of popularity. Its failure to meet skolars' requirements has often been pointed out. While far the best for an index, it stil leavs much need of a good clast catalog. But difficulties both of making and of uzing a clast catalog wer formerly so great that there was a conviction amung many librarians that notwithstanding its great advantajes, the idea must be abandond as impracticabl, tho other eminent authorities ably argued that the poorest clast catalog was better than one unclast, and that any use of such a catalog was in itself a lesson in bibliografy. Now that the serius difficulties of making a good clast catalog hav been so larjly removed by the simpl arabic numerals and Relativ Index of this decimal plan, the merits of clast over the more common dictionary sistems ar dubly prominent.

The Subject Index of this sistem is a skeleton dictionary catalog, covering everything not fully coverd by the 'name catalog'. Insted of giving book titles under each hed, the number *refers* to all those titles simply and directly. The index may be made on any of the varius dictionary plans, with all the advantajes it may possess. To us, simplest seemd best. We giv only short heds with brief indication in doutful cases of viewpoint taken in assyning clas numbers.

We therefore unite advantajes of dictionary and clast catalogs, not by mingling them and so losing much of simplicity of one and as much of excelence of the other, but by realy uzing both, each with its own merits. Only one set of titles is needed, for our clas numbers make this availabl for both catalogs.

Advantajes

Shelvs The sistem on the shelvs is the simplest form of relativ location. Many libraries hav adopted it for shelf arranjement, where catalogs recently printed, or larj investment in another plan, made it too expensiv to chanje anything else. For its great advantajes for shelvs see p. 21^9–23^1, Relativ location.

Shelflist By simply printing the shelflist at any time an admirabl subject clas list is made for any topic on which there may be present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about waterworks is wanted. The librarian has only to open his shelflist to 628.1 and 352.6 and print it. This great advantaj is gaind with but slyt variation from the form found best in its regular use as a shelflist for examination of shelvs to detect losses and misplacements.

Accession book Where shelf mark colums ar uzed, tables of number of books aded on each subject ar redily made. A glance shows caracter, by subjects, of books aded during any givn period; for, wherever this clas number occurs, it tels not only *where* the book is shelvd but also *what* it is about.

Pamflets These clas numbers applyd to pamflets, whether catalogd or uncatalogd, hav proved specialy satisfactory. Number is writn on upper left corner, and pamflets ar shelvd in pamflet boxes, side by side with books on same subject, or they may be kept in vertical files or on special shelvs divided every 10 cm by perpendicular partitions, or, if preferd, each pamflet may be put in exact place as if bound. Litl expense is incurd, and yet entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantajes of this clast arranjement, both in economy and usefulness, wil be appreciated by every keeper of a pamflet colection. A name or author catalog is made on slips if time allows. The pamflets themselvs ar the best subject catalog. Placing all material under its clas number on regular shelvs, has the great advantaj of enabling anyone examining a subject to see all resources in 1 place, so far as posibl.

Sale duplicates The same arranjement is admirabl here. Duplicates ar so constantly chanjing that a catalog can hardly be afforded, and a subject arranjement on any other plan than this is difficult to maintain. Stil, it is very important that there be sum means of knowing what duplicates there ar on any givn subject. By simply penciling clas numbers on books and arranjing these numericly, it is posibl to giv the information more quikly, cheaply and satisfactorily than in any other way.

Charjing sistem Clas numbers may be uzed for charjing with the following advantajes: Minutest statistics of circulation can be made by simply counting charjes and entering the number for each clas on a report sheet. If filing is dun by call numbers, as either a primary or a secondary consideration, whereabouts of any book lent or amount of use of any subject is quikly found; file givs an up-to-date record of all books lent in any subject; e. g. cards filed under 52 show for Astronomy or those under 822 for English drama just how many and what books ar out and who hav them. Such a circulation table, always at hand, and with no extra expense or labor, since it is a natural part of the sistem, is hyly prized by all interested in caracter of jeneral use of the library, while it can by trifling labor be converted into a permanent record by entering on a report sheet. If a reader's card is uzed, caracter of the individual's reading is here shown and never before has so much attention as now been givn to educating readers' tastes.

Subject references For these it has peculiar advantajes. Many uzers ar undertaking analises and cros references to an extent hitherto tho't wholy or almost imposibl. These few figures tel as clearly as a long heding exactly what the reference is, while gain in eaz of use is even greater than in time and space saved in recording. The clearness and directness

of the method aid wonderfuly in this work. References to transactions, or chapters in essays, may be made in the most compact and uzabl form. See also p. 40^3–43^1 Bibliografic modifications.

Recataloging or reclasifying When Amherst College in 1873 first adopted this plan and began to recatalog its library, it was found (as in hundreds of cases since) entirely practicabl to chanje to the new sistem gradualy, as means allowd, without interfering in any appreciabl degree with circulation. Methods employd for thus chanjing without interrupting use must vary according to different conditions. The essential feature is enuf distinction between old and new call numbers to be eazily recognized by attendants. If old call numbers consist wholy of figures, the initial letter of the Cutter author numbers furnishes this requisit. All numbers of figures only ar then recognized as old, and all numbers containing a letter as in the new sistem.

Adaptability The sistem is so flexibl that it adapts itself to almost any circumstances. It may be uzed with proportionate results in almost any one of its applications without the others. It may be applyd to pamflets alone, bringing order out of caos, and solving this vext and vexing problem; or it may be uzed for catalogs, leaving shelf arranjement as before; or it may be applyd to shelvs, while the catalog is dictionary or any other typ.

Arabic numerals Arabic numerals can be writn and found quicker and with les danjer of confuzion or mistake than any other simbols. Therefore roman numerals, capitals and small letters, and similar simbols found in most clasification sistems ar entirely discarded, and by exclusiv use of arabic numerals thruout shelvs, and indexes, catalogs and other records, there is secured the greatest accuracy, economy and convenience. This advantaj is specialy prominent in comparison with sistems where author's name or the title must be writn, in calling for or charjing books and in making references.

Endowment of special departments Another great advantaj is peculiar adaptability to special endowments. One specialy interested in any subject can often be induced to endow that subject, thus providing for bying each year all the best publications.

If John Doe is specialy interested in opera, the library says: 'Giv us $1000 as endowment of 782, and we wil call it the 'Doe Library of Dramatic Music'. There wil be found every book, pamflet, newspaper clipping, or manuscript that the library has or can get on this subject. Gifts from others wil be placed in the Doe Library, the donor's name being givn on the bookplate, and for jenerations to cum every person interested in opera wil be grateful for yur foundation'. In this way 782 is assynd to John Doe, and his pride is stimulated in developing it. If another man with larjer means and interest wil endow the whole subject of music 780, there is no difficulty or impropryety in including 782, the Doe Dramatic Music Library, as the 2d section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has amung its readers sum specialy interested, who if properly approacht wud endow sum topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great servis in working up these special endowments.

Summary To sum up its claims: It is by far most inexpensiv; eazily understood, rememberd and uzed; practical rather than theoretic; brief and familiar in nomenclature; susceptibl of partial and gradual adoption without confuzion; convenient for arranjing pamflets, sale duplicates, and notes, and for indexing, and in keeping statistics and cheks for books off shelvs; a satisfactory adaptation of card catalog principl to shelvs. It shelvs books compactly; uzes simpl and few simbols; can be expanded, without limit and without confuzion or wasted labor, both in catalogs and on shelvs or in catalogs alone; cheks thuroly and conveniently against mistakes; admits redily numerus cros references; is unchanjeabl in its call numbers, and so givs them in all places where needed; in its Index affords an anser to the greatest objection to clast catalogs, and was the 1st satisfactory union of the advantajes of clast and dictionary sistems.

Sugjestions to uzers

Hold book in ryt hand and turn with left, then both clas numbers and index heds show most plainly on left marjins and reference is quicker when eye follows left pajes only.

Numeration In thinking or speaking of clas numbers, to avoid confuzion **always divide at the decimal point, and name it;** e. g. read 942.27 'nine forty-two, point twenty-seven', never 'ninety-four two twenty-seven'. If 'point' wer omitted, the ear myt redily interpret 270.2 (two seventy, two) as 272, while 'two seventy, point two' can never be misunderstood.

Plan of book

Tables First paje shows 10 clases into which all topics ar divided. Next paje shows 9 divisions of each of these 10 clases, in a birdseye view of the whole skeme on a singl paje. Then follows a sinoptic view of 10 pajes, one for each clas, showing the 9 sections of each division of each clas.

Following these sinopses is the complete clasification, which repeats in proper order, clases, divisions and sections, with all subsections. For convenience of uzers, who thus get fuller and clearer ideas of the field which each number covers, sinonimus terms, exampls, brief notes, dates and varius cachwords ar often aded to main heds. Therefore all references to numbers **shud be lookt up in the ful tables** of subsections, uzing summaries only when a merely sinoptic view is wisht.

Index Next an alfabetic index of all heds refers by clas number to exact place of each in Tables. This Index includes also, as far as found,

all sinonims or alternativ names for heds, and any other entries likely to help a reader find his subject more redily. Even a uzer who knows just where to turn to his subjcct in the Tables, may, by consulting the Index, be put on the trak of valuabl allyd matter which he myt otherwize overlook.

Use of Tables and Index

Familiarity with Clasification Get a jeneral knowlej of the skeme by lerning the 10 main clases [yu wil soon know the 100 divisions also without special study], so that yu can tel to what subject a givn number belongs from its 1st figure, without referring to Tables. Specific knowlej of minute divisions wil cum gradualy, but rapidly, from use. Assyn numbers by uzing Tables alone, and then always verify yur result by the Indcx. Thus yu wil more rapidly acquire knowlej of the Clasification and facility in its use. To do this, decide first to which of the 10 clases the subject belongs; next, take that clas as if there wer no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down yur topic in its groovs, which becum 10-fold narrower at each step. **As a chek against error, even tho familiar with the skeme, uze Index freely.**

Subject of a book To find this out, consult:

1 **Title,** since it is jeneraly chosen to show what the book is about, but as many titles ar vague or misleading, never clas from title alone but always examin also

2 **Contents table,** which is best gyd to true subject. If there is no contents table read

3 **Hedings of chapters,** or marjinal topics

4 **Preface** Unless alredy certain, glance thru this to cach author's viewpoint and verify impressions gaind from title and contents

5 **Reference books** If preceding means fail, consult relyabl bibliografies, clast and annotated catalogs, biografic dictionaries, histories of literature, cyclopedias, reviews etc. for information about caracter of book.

6 **Subject matter** If 5 shorter methods abuv fail, examin subject matter of book itself, and if stil in dout, to avoid mistakes, put aside on an 'under consideration' shelf til yu can examin more thuroly or consult

7 **Specialists** Experts ar uzualy glad to examin any new books in their dcpartments, enuf to clas them, i. e. to define their true subject and relations. Old ones they know where to put alredy.

Be specialy careful when dealing with flexibl terms, e. g. child welfare, to make sure of the caracter of its application in that individual book.

After deciding what the book is about, find this subject in Tables, either thru Index or by uzing Tables directly, which for beginners is a longer process, seldom to be trusted without subsequent reference to Index; e. g. Pollock's *Land laws* myt naturaly be clast from Tables alone

as '333, **Land:** ownership; ryts; rent', which seems exactly to fit this book. Index, however, shows 2 numbers, both referring to land laws, but from different viewpoints; i.e. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to giv a popular presentation of English statutes pertaining to landholding, not to discuss history and theory of land laws from economist's viewpoint. It should be clast '347.2, Realty', which myt hav been overlookt but for Index.

Assyning clas numbers 1 Practical usefulness controls. Put each book under the subject to the student of which it is most useful, unless local reazons 'attract' it to a place stil more useful in yur library. See p. 30[3].

2 *Content* or real subject of which a book treats, and not *form* or accidental wording of title, determins its place. Following this rule, put a filosofy of art with Art, not with Filosofy; a history of mathematics with Mathematics, not with History; for filosofy or history is simply the *form* which these books hav taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they ar most useful. (See also p. 17[1].)

3 Always remember that the question is not 'where wil one probably look for a certain book', but 'under what subject is the book of greatest value'; e. g. it is of litl consequcnce whether 'one wud be apt to look' under 595.16 for Darwin's *Formation of vegetable mould*, but of much consequence that one studying erthworms shud find that book in 595.16 Erthworms, since it is chiefly valuabl as a study of erthworms' habits. Anyone wanting that special book shud look for it in catalog under Darwin.

4 Giv every book most specific number which wil contain it. This varies in different libraries according to number of figures uzed, e. g. specific number for 'compulsory vaccination' is 614.4738; but in a library uzing only 3 figures, 'most specific' number posibl is 614, which must take everything on Public helth.

Sumtimes a library unwizely puts all books of a division together, if but few; e. g. all mathematical works ar markt 510. It takes just as many figures and in most cases just as much labor and if a man wants the 1 calculus in the whole library he has to serch thru perhaps 100 volumes in 510, when otherwize he wud instantly find it standing alone as 517. See also p. 31[1], Number of figures in clas number.

5 'Predominant tendency' or obvius purpose of a book uzualy decides its number at once. Stil a book often treats of 2 or more subjects. In such cases put it where it wil be most uscful, and make aded entries for all subordinate subjects. For a clast catalog giv the aded entry numbers on both bookplate and main subject card as wel as on aded entry cards.

It is a markt advantaj that these aded entries, notes etc. may be made from time to time at convenience. It is necesary at first to determin only predominant tendency of book in order to clas it; aded entries ar made whenever found desirabl.

Supply these numbers indicating more closely caracter of book as rapidly as posibl, and invite all specialists, in connection with their reading; to call attention to every desirabl aded topic notist. The numbers take litl room, ar eazily aded, and in most cases ar very valuabl.

6 If 2 subjects hav distinct paje limits, jeneraly clas under 1st and make analitic entry under 2d; but if 2d is decidedly more important or much greater in bulk, clas under that, with analitic entry under 1st. Always put a book under 1st subject, unless there is good reazon for entering it under another.

7 Consider not only scope and tendency of each book, but also nature and specialties of each library.

Any subject of which a library makes a specialty naturaly 'attracts' allyd subjects. This influence is strongest in minute clasing. To admit this variation, many subjects hav in this skeme 2 or more places, according to these different sides; e. g. a book on 'skool hyjiene', which a medical library puts under 613, has also a place in 371.7, where education specialists require it.

8 If a book treats of a majority of the sections of any division, giv it division number, insted of most important section number with aded entries. Unless sum one section is so prominently treated as to warrant placing the book in it, clas a book covering 4 or more sections under division number; e. g. clas a volume on lyt, heat and sound, under hed most fully discust, with aded entries for the others; but if it treats also of mekanics, hydrostatics and neumatics, clas as 530, or jeneral fizics, tho no mention be made of electricity, magnetism or molecular fizics.

9 When a book deals with 2 consecutiv and closely allyd subjects, jeneraly clas with 1st and regard this as including 2d, but if 2d is decidedly predominant, clas with this and either disregard 1st or make aded entry, according to importance of that portion.

10 To secure uniformity, make for future reference ful notes of all difficulties and decisions, for it is more important to put books on same subject *together* than to put them in a more nearly absolutely correct place. These notes shud be writn on broad marjins of the Clas Tables or in an interleavd copy or on P slips arranjed by clas numbers like a clast catalog.

11 Keep colected works, libraries etc. together, and assyn, like individual books, to most specific hed that wil contain them; or assyn to most prominent of varius subjects treated, with aded entries for others; or, better, separate and clas parts as independent works.

This last practis constantly grows in favor, and many librarians now larjly disregard uniform bindings and 'series' lettering, and, unless contents of volumes ar so connected that they can not be separated, clas each under most specific hed that wil contain it.

12 Clas translations, reviews, keys, analises, ansers and other books *about* specific books with orijinal book, as being there most useful.

Number of figures uzed in clas number Decide this according to circumstances in each library. Small libraries often uze minute subsections beyond 3 figures only in certain divisions like Travel, 913–919, where closer jeografic division is specialy needed, and in 400 and 800, when a 4th figure is needed to separate different languajes.

In very small colections 2 figures myt do til growth required further division; but it is economy, and saves handling books again, to uze at least 3 figures at first, even in smallest colections. In larjer or rapidly growing libraries all subdivisions may be uzed for same reazon, tho number of books may not then seem to justify it. Whether there ar 1 or 1000 books on any topic, they take no more shelf space if clast minutely, and work is dun once for all. When larj accessions cum, even if a century later, this number wil not hav to be alterd. A library having but 20 books on Education myt think it unwize to uze the ful skeme, but the whole 20 wud go on a singl shelf, and take no more room, and the Index wud refer more exactly to what was wanted. Number of books yu hav on any subject has in this sistem no special weight. In relativ location, any number of consecutiv topics without a book wastes no space on shelvs or in catalogs. Numbers ar merely skipt. This not only does no harm, but has great negativ value, as looking for a number and finding it blank or skipt shows that yu *hav nothing on that subject* — information 2d in value only to finding sumthing, for one need no longer serch.

The practical objection to close clasing is that it givs a longer number, when this is uzed to charj by in a lending library. In a reference library ful subsections shud always be uzed. Where short numbers ar imperativ, giv ful clas number on another part of the bookplate, not to be uzed in charjing, but as a gyd to contents. Thus when a clasifyer has once examind a book and found out just what it is about, he records it to benefit others.

Bilding numbers

Jeografic divisions In dividing by cuntries according to note 'Divided like 930–999', found so often in Tables, ad only the number following initial 9, for this 9 means not locality but simply clas 9, History; e. g. 942, history of England, analyzd is 9 history, 42 England (4 Europe, 2 England). If jeolojy of England is wanted, ad to 55 (jeolojy number) 42 (number for England) and yu hav 554.2. History of N Y state is 974.7, of which 747 is locality number; 353.9747, number for N Y state administration, is bilt by ading to number for state administration, 353.9, number for N Y state, 747.

Languaj and literature In 890, where directed to 'divide like 490', note that 890, Minor literatures, and 490, Minor languajes, correspond exactly, so that only figures following 49 ar to be aded to 89 to bild a minor literature number; e. g. Polish languaj is 491.85; ading 185 to 89, Minor

literatures, givs 891.85 Polish literature. In brief, to form literature from filolojy numbers substitute 8 for 1st figure, 4; e. g. Sanskrit languaj 491.2, Sanskrit literature 891.2. Under 490, the filolojic divisions (dictionaries, grammar etc.), and under 890 the form divisions (poetry, drama etc.) shud be uzed only when clas number represents a *specific* languaj or literature, e. g. 491.7 Russian, but *not* 497 North American, awaiting further division by languaj.

If directed to 'divide like main clasification', as in 016, number for required subject is aded exactly as it stands in Tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in Tables must be dun with great care, or confuzion results. Many uzers, fascinated with the posibilities of the sistem, make combinations more injenius than useful; e. g. 'The horse's foot and how to shoe it' was once markt 636.1682, i. e. blaksmithing number, 682, aded to horse number, 636.1. Horseshoeing is now in Tables as 682.1, while 636.168 means American ponies.

Often a clasifyer ads a figure to show sum distinction. It seems short and desirabl, but later he may find he has shut himself off from uzing sum other division greatly preferd. For his personal aditions, letters or other simbols not numbers shud be uzed. Every aded simbol must be clearly writn in Tables and Index. Never trust memory for decisions.

See also p. 35[1]–38[1], Letter or simbol notations for chanjes or aditions.

Book numbers

The call number of a book (number by which it is cald for) jeneraly consists of both clas and book numbers. The same clas number applys to all books on same subject; the book number distinguishes each individual work from all others in that clas, and is the same for all volumes or copies of same work. When a specific volume is wanted the number for that volume must be aded to clas and book numbers to complete the call number. Most important methods of assyning book numbers ar:

Author numbers Invention of translation sistems by which a name is represented by its initial, with remaining letters translated into numbers, e. g. Freeman, F85, has led most libraries to arranje books under each clas number alfabeticly by authors, or in local history by towns, or in individual biografy and bibliografy by biografees and bibliografees. This keeps together all works by same author or on same town or same biografee, etc. and even in larj clases enables one to find any book redily without consulting catalogs. One great advantaj is that same author has same book number in every subject; i. e. figures ar 'significant' like our clas numbers, and translate themselvs into names. Great practical nemonic convenience results from this form of book number. Most widely uzed of these translation sistems is C. A. Cutter's, known as 'Cutter numbers', publisht by Library Bureau.

Special author tables A 2d method, for authors having special numbers, e. g. Shakspere, 822.33, or Milton, 821.47, is uniform use for such authors, of book numbers A-N, with O-Z assynd on basis of their individual works, as ilustrated under 'Special author tables', on pajes following Relativ Index.

Time numbers A 3d arranjement of books under clas numbers is cronolojic by date of 1st publication. Its advantaj is in presenting historic development of subject, the book writn erliest being on the left, the latest work on the ryt, and then of any givn book it is evident that all those on the left wer writn before it, all those on the ryt after it. In syence and useful arts this has special value, while in literature author arranjement is better. W. S. Biscoe's translation sistem of dates givs a more compact and satisfactory mark for year than date writn in ful. (For ful explanations and table see 'Biscoe time numbers', on pajes following Relativ Index)

Accession order A 4th arranjement, simpler but otherwize les desirabl, is in accession order; 1st book put in a clas being numberd 1, the 2d 2, the 3d 3.

It is entirely practicabl to uze 2, 3 or all 4 of these methods at same time in same library, one peculiarity of the sistem being the eaz with which it may be adapted to almost any special circumstances. The advantajes of the cronolojic numbering ar most markt in syence and useful arts; the alfabetic is best in clases where names of authors or subjects outrank dates; and special author numbers in cases where clas number alredy indicates author, so corresponding indication in book number wud be useless duplication; while the old accession-order plan is good in special colections which must be kept separate and ar no longer aded to, since here the extreme simplicity of 1, 2, 3 order is secured with no sacrifice. It is stil better, if this last method is uzed, to adopt A, B, C, insted of 1, 2, 3, as 26 insted of 9 books may be markt with 1 caracter, and chiefly becauz it is hyly desirabl that each book number begin with a letter, which can not be mistaken for end of clas number if writn on same line; e. g. 1st book under 513, if numberd 1, myt be so writn as to confuze with subsection 513.1, but 513A cud not be misinterpreted. If figures ar uzed, take care to write them as a fraction or with separating dash; e. g. $\frac{513}{1}$ or 513–1.

Variations practicabl in adjusting to special local requirements

Sum uzers assume that adopting Decimal Clasification and Relativ Index carries with it other parts of the sistem uzed by the author at Amherst, Wellesley or Columbia colejes or in New York State Library. In fact, the plan in each differd sumwhat from all the others, and many of the thousands of public and private libraries now uzing it hav adopted stil other variations; for special constituency, circumstances and resources of each library must be considerd in deciding what is best for it. This decision

shud be made by one familiar, not only with the library and its needs, but also with all methods of any merit and with comparativ eaz and cost of introducing them into any givn library.

Cautions Having decided to adopt this sistem in its *decimal* form as workt out and printed, determin whether to adopt certain variations, noted in 1–5 below as practicabl, and in sum cases useful and desirabl. The inexperienst uzer is very likely to feel entirely competent, without reading more than a singl paje of the Tables, regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations, to institute a series of 'improvements'. Experience shows that nothing cud be more disastrus. It seems a simpl matter to put a topic a line hyer or lower, but in sum cases this may affect over 100 Index entries, and there is no posibl way to be sure of correcting them except by examining each of 43,000 heds. Proposed chanjes, carefuly studid out and submitted as improvements, ar frequently shown by our old records to hav been adopted and uzed in the exact form proposed til unforeseen considerations forst us to chanje to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting voluminus records of previus experiments.

Even sum who hav uzed the sistem longest hav been misled into adopting chanjes which on tryal they wer compeld to reject, going bak to orijinal form at cost and confuzion of 2 chanjes. In so apparently simpl a thing as introducing subdivisions on blank numbers, mistakes ar often made; and when too late to correct them the makers regret their neglect to consult the editor and secure advice and cooperation of those most familiar with the manifold interrelations. Even wer the independent divisions equaly good, they do not agree with those which wil later be printed in Tables and Index, so that every copy of the printed skeme wil hav to be corrected in manuscript before it is uzabl in that library. The only safe rule is to *make no chanjes or subdivisions* without submitting them to the editor, who wil gladly advize on such matters without charj, not on ground of any superior wizdom, nor even becauz of larjer experience in this special work, but becauz in this way only can it be lernd if corresponding subdivisions hav been alredy assynd sumwhat differently.

A uzer who adopts printed form avoids criticizm sure to be aimd at any posibl skeme. The moment he makes 1 'improvement' he must defend all his heds or alter them to suit each critic. Much time is saved by saying that the skeme is uzed as **printed,** and blunders ar the author's, not the uzer's. A list of chanjes made by others without consultation was writn for this caution, but is omitted lest it seem invidius. It ilustrates how eazy it is for able men to make what no one questions after explanation to hav been outryt blunders, in 'improving and ading to' the printed skeme. We ar always grateful for sugjestions from anyone, and, having alredy spent so much time in efforts to improve this sistem for the common good of all uzers, invite cooperation of those interested in completing needed subdivisions and eliminating any errors that remain in either Tables or Index.

Sugjested variations

The following brief notes show the most important variations found practicabl in the 'relativ index and location sistem,' oftener cald the Decimal Clasification or 'Dewey sistem', or oftenest simply 'D C'. For its essentials see p. 11[6].

1 Letter or simbol notations for chanjes or aditions To protect other uzers from confuzion, the publishers insist, as entitled to by copyryt, that D C numbers shal not be printed with chanjed meanings or aditions, without sum clear indication of the fact in the number itself. If reazons which led to adoption of form printed ar not conclusiv to another, we wish to remove any obstacls to his use of the sistem with such chanjes as shal satisfy him. This can redily be dun by uzing a letter or sum other caracter than the 10 dijits, to mark chanjes; e. g. if yu wish a different set of subdivisions under any number, make it out to suit, and letter it a, b, c, etc. It wil arranje in its exact place and exact order without difficulty, and no other uzer of the sistem wil be confuzed by yur forms. In Index, cancel 1, 2, 3, etc. yu hav discarded, and write in a, b, c, etc. adopted. **Whenever yu uze our exact numbers, uze also our exact and universal meanings for them as indext.** For any aditions or chanjes of yur own, uze letters or simbols of yur own which can not be mistaken for ours, uzing, of course, our figures to the place where difference begins; e. g. if yu want a new heding next to 551.34, Icebergs, it can not properly go as decimal 1. Mark it 551.34a, and it arranjes as wisht. If yu wish to chanje a hed from one place to another, cancel it where it stands, and *leav that number blank* in Tables. Then insert the hed in its new place as abuv, as if it had never been in our Tables. Unuzed decimals ar often *alredy appropriated* for authorized subdivisions, tho they may not be printed til several editions later.

This plan of introducing letters or other simbols wherever each uzer pleazes, wil giv all needed freedom to the personal equation and desire for 'orijinality', and meet all real wants for peculiar clasification in peculiar cases.

Fiction In sum cases it is uzualy best to modify clas numbers by letters as abuv. In popular libraries half the circulation is often fiction. It is a great saving to omit clas number entirely and uze merely book number, it being understood that *no* clas number means 'fiction'. Sum libraries go stil further and for fiction omit book number as wel as clas number. Sum even omit book numbers in other clases.

Juvenils After fiction, great circulation makes juvenils a good place to economize, if they ar kept separate, as is uzualy desirabl in popular libraries. Books ar clast as if for adults (except that a short number may be uzed) J being prefixt to show their special caracter. This givs J alone as clas number for juvenil fiction; J942 is a child's history of England. These books ar arranjed in a paralel library by themselvs, so J942 cums between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

The separate J library can at any time be abandond by distributing J books amung the regular clases, either ignoring J entirely, or preferably by putting all J books by themselvs at end of each clas number. In former case, if shorter numbers hav been uzed for juvenils than for adults they shud be extended to correspond; in latter case, numbers may either be extended and the books shelvd at end of exact subdivision, or the shorter numbers may be retaind and the books groupt at end of entire section, e. g. *all* juvenil works on English history may be kept under short number J942 and shelvd after all adult works on English history, both 942 alone and 942 with subdivisions.

There ar thus 3 methods: 1, to hav a separate J library; 2, to hav J books by themselvs at end of each clas number; 3, to hav J books in alfabetic order amung other books on same subject. In this last case J is useful only to call attention plainly to their juvenil caracter.

Unless shorter numbers ar uzed for juvenils than for adults the same marking is uzed for all these plans, and one can be chanjed to another by simply distributing books the other way and teling attendants.

Biografy For this larj clas, opinions differ as to best treatment. Beside the plan printed in Tables the following methods ar widely uzed.

For *individual* biografy, i. e. that relating to a singl person (including books containing biografies of not more than 4 persons)

1 Put all biografies in one alfabet of names of *persons writn about*, uzing 92 for clas number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, 92 G76. This is most compact for charjing, and is preferd in popular libraries of larj circulation. Insted of 92 for clas number, B is often uzed, but is les desirabl, since it has no lojical place in a numeric arranjement on shelvs and is sumtimes confuzed with the author's initial in fiction.

2 Distribute biografy as far as posibl to subjects it ilustrates, leaving, of course, under 920 the lives not bearing specialy on any subject; e. g. all lives of musicians go under 780 and its subdivisions, life of Wagner being 782.2 insted of 927.82 as in Tables. When 9 is uzed to indicate history of a special subject, 92 may be uzed for its biografy; e. g. 780.9 History of music, 780.92 Biografy of musicians.

Collectiv biografy may be clast in a singl group under 920, or by subject under 920–928, as in Tables, or distributed thruout the clasification, according to 2d plan givn abuv for individual biografy, subarranjement with any of these methods being alfabetic by author.

Paralel libraries This treatment of fiction, juvenils and biografy ilustrates the principl. Its other chief application is for languaj colections. Sum libraries hav a constituency not reading English, and so need a paralel library in Italian or Swedish, etc. This is most eazily made by simply prefixing languaj initial to clas number. If arranjed in one series of subjects this initial is ignored, or all books in the special languajes may be groupt under initial letters at end of each clas number. The

paralel library is made by simply putting together all books having same languaj initial and then arranjing by clas numbers. Initials uzed ar F, French, G, German, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, W, Welsh, A, Arabic, etc. Where only 1 languaj is so markt in a givn library, jeneraly only 1 letter shud be uzed, so as to avoid an extra letter in charjing; e. g. S wil anser for either Spanish or Swedish if uzed in only 1 sense. A prefixt letter may, however, hav been uzed with a different meaning, e. g. R for Reference, necesitating more than 1 letter for the languaj prefix, *even if only 1 languaj* is represented by the initial, e. g. Ru for Russian. This plan has proved very satisfactory in actual use.

Combining languaj and literature Same principl can be applyd also in combining each languaj with its literature, if it is preferd to abolish clas Filolojy, and make it simply an appendix to Literature; e. g. uzing 82f for English filolojy and ading filolojy subdivisions, English dictionaries wud becum 82f3, English grammars 82f5, etc. arranjed either just before or just after English literature, 820, 821, etc. and reverse wud hold true if a filolojist wisht to abolish Literature and make it an appendix to Filolojy. For a better plan see p. 39[2-8], Broken order.

Reference library To separate books most needed, the best plan is to mark R before clas numbers, and arranje books together as an R library. When books ar to go into jeneral colection again, draw a line thru this letter.

In same way it frequently happens that a jeneral private library is givn on condition that it be kept together; e. g. Phoenix library of Columbia University. This has P prefixt to clas number, and thus is a paralel library by itself. An initial is better than * or similar mark, for it helps memory and is just as brief. Same plan applys if the library has an 'inferno' for books not uzed without permits, or for distant rooms where books worth keeping but seldom cald for can be arranjed in a paralel storaj library.

Stil another provision is made in 080, 8 being regular number for jeneral colections (as in 508, 520.8 etc.), for those special libraries which can not be separated becauz of binding or conditions of gift; but insted of the 3 figures in 080, a singl letter, as described abuv, indicates the special colection, and it is eazy to lern location of the few special colections of any one library.

Omission of initial 0 in the clas 'Jeneral works' has been tryd; e. g. 51 insted of 051 for an American periodical, but is not advized, for the eye gets so in the habit of reading as *Syence* any number beginning with 5, that there is a mental hich if, e. g. jeneral periodicals ar writn 51, etc. insted of 051, etc. Another reazon is that Institut International de Bibliographie (see p. 40[3]) regards as neglijibl a final 0 and uzes the 1 and 2 figure numbers as we uze those same numbers fild out by 0 to 3 figures, e. g. 1 for filosofy, like our 100, 22 for Bible, like our 220. Also in clasification it sumtimes happens that the 1st 2 figures ar obvius at a

glance, but time must be taken to determin the 3d. It is convenient to write these 1st figures, but if a mathematical book receivs its 1st 2 figures (51), this unfinisht number is likely to be confuzed with the 2-figure number 51. This danjer may be larjly avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2 Contractions for specialists The sistem is often uzed by specialists for very minute work, where decimals run out to 6 or more places. Theoreticly it is better to write all these figures, thus showing relation to the universe of knowlej, but there is no practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on 'Swedish poetry of the aje of Gustavus' can uze a singl letter insted of the ful 839.715 and save 5 caracters in numbering each note; or a dash may be writn for all but the last figure, thus '— 5'. A body of sueh notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with litl danjer of confuzion. Stil a stickler for theoretic completeness wil write a ful index number for each separate slip.

3 Use of alfabet or cronolojy for final subdivisions While our plan is decimal as distinguisht from 'dictionary' we *always alfabet* wherever that is more useful. Indeed, the main feature of our plan is its alfabetic Relativ Index. Frequently in minute divisions it is economy to arranje alfabeticly or by dates without uzing a translation sistem. This is specialy true in index rerums and notes of specialists. After numbers hav been uzed as far as that is the most useful form, then either the name chosen for hed or the year can be inserted at the end; e. g. towns in a givn state, individual birds or insects cuming under one number, names of men writn about in biografy, etc. Sum may prefer to adopt this plan in places where we hav chosen a grouping; e. g. in chemistry, to put all metals in one alfabet under 546.3, insted of uzing numbers 546.3–.99. If this chanje is wisht, a more complete one wil probably be better: put all elements, metallic and nonmetallic, in 1 alfabet under 546. Such use of the alfabet cauzes no confuzion with the Index, as it simply subdivides more closely, unless, as in the case of 546.3, the alfabet replaces heds alredy printed. In this case, caneel all subsections in the Tables by drawing a line obliquely thru heds discarded, and mark in marjin 'Alfabet by elements,' e. g.

Alfabet by elements

546.3	**Metals**
.31	Alkali group
.32	Potassium
.33	Sodium
.34	Lithium
.35	Rubidium
.36	Caesium

Then find each of these heds in Index and cancel all figures after 546.3, e. g.

Potassium, inorganic chemistry, 546.32
Rubidium, " 546.35

This plan has special value in this place, as new elements ar discoverd from time to time, and can redily be inserted in alfabetic place. Stil many chemists think it valuabl to hav similar metals groupt together for convenience of study, and to cover books writn on the group as a whole, and also think it important to hav a number for rejected elements, becauz literature and references about them remain, and must be provided for. New elements may be inserted, as explaind on p. 16[5].

4 Broken order Another common and often desirabl variation for shelf arranjement is to break sequence of numbers, to get most-uzed books nearest delivery desk. Theory keeps numbers in strict sequence; but a hyer rule everywhere is 'saerifiee any theory for a substantial gain'. Practicaly there ar few libraries where it is not best to break order of clases. Often divisions ar best arranjed out of numeric place; e. g. 520 Astronomy may be wanted in a room accessibl at nyt; fiction, juvenils and biografy ar always wanted near the delivery desk in a public library, and in strict order ar as likely to cum at the most distant point. Numberless local reazons may make a broken order desirabl. There need be no hesitation in adopting it if enuf is gaind, but there shud be charts clearly showing where each division starts; e. g. after 430 'Preceding 830'; after 520 'In observatory', it being neeesary to specify room for books entirely removed from jeneral library arranjement. The summary of 100 divisions is furnisht by Library Bureau, on celluloid charts, to show location. Opposit each division shud be markt its beginning on shelvs, and it is eazy to vary the order as much as desirabl, tho of course the nearer the divisions run in regular order, 000–999, the eazier it is for a stranjer to find his way about. Variations in order of sections ar les wize and seldom necesary, but if made, a wood or cardboard dummy in regular place shud hav markt on its side the actual location of any section removed.

This broken-order plan is best for bringing together filolojy and literature of each languaj without altering numbers or prefixing any letter. Let 420 be shelvd just ahed of 820, 430 ahed of 830, and so for all languajes, making the jeneral note that all 400s ar shelvd just ahed of corresponding 800s, and remembering that after main languajes 4 or more figures ar required to indicate languaj alone, so Portuguese filolojy goes between 868 and 869, Russian between 891.69 and 891.7, Bohemian between 891.85 and 891.86, etc.

5 Pro and con division of topics It is very useful in many cases to separate books on a topic with strongly markt sides, so either set of views and arguments may be seen by itself. This has been dun in sum cases by subdivision, e. g. 337 Protection and free trade. In others it is equaly useful, and can be indicated by an aded mark, e. g. 324.3 Woman suffraj. The number may be uzed for jeneral works, giving facts etc. and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, ar too long for a

circulating library to uze in charjing but may be disregarded for that purpose if book numbers ar so assynd as to distinguish. In reference libraries, on cards, etc. most wil prefer to write out *pro* and *con*, to mark the 2 groups. The order on shelvs is, of course, alfabetic, i. e. 324.3, 324.3c, 324.3p; or if + and — ar uzed, the uzual order is followd: +, —.

These 5 notes sugjest the ranje of variations which may be made, and ilustrate D C adaptability to widely different conditions. For book numbers, which decide the order of material after it is groupt into its final clases, see p. 32^5–33^7.

Bibliografic modifications

After study of all other availabl sistems the Decimal Clasification was adopted in 1895 by the newly organized Institut International de Bibliographie (known as I I B) as best adapted for its projected universal subject bibliografy to cover ultimately all subjects in all languajes in all periods of the world's history.

Determining factors wer:

1 Decimal Clasification was of topics, independent of languaj or exact sinonim by which exprest

2 Its notation was in itself the only international languaj, since it consisted solely of arabic numerals, uzed all over the world

3 Its decimal principl allowd indefinit intercalation

Overdetaild as the Clasification alredy seemd to many librarians, lak of subdivision was the Institute's 1st difficulty and it urjd us at once to enlarj the Tables. State Library duties at that time made concentration on this imposibl, but we promist cooperation and criticizm if I I B wud draft required extensions. When its remarkably rapid work precluded even adequate criticizm, it was authorized to publish its tables and assured that the American revision wud vary from them as litl as practicabl. At Geneva in 1924 the harmonizing of the American and European editions was agreed on and to D C editor was delegated the very extensiv work of checking the variant forms and recommending which shud be kept, a work which is now wel under way.

Obviusly, bibliografic and jeneral library use ar so different that in sum cases what is clearly best for real needs of skolarly specialists, where any simbols can be uzed on index cards, wud be quite impracticabl for a public library, which must hav simbols that can be markt on the bak of books, redily uzed by the unskild public in writing call slips, and rapidly handld by low-priced runners and yung clerks. This difficulty can, however, often be obviated by allowing alternativ forms.

I I B has devized and uzes injenius simbols, expressing many interrelations and greatly increasing numbering capacity.[1] But these new simbols

[1] For expressing these ideas in terms of pure decimal notation, refer to Supplementary Table 2 following Relativ index

ar tho't by many too complex for ordinary shelf or catalog use, tho 25 years use by I I B with unskild clerks has proved that this objection is more fear than result of fair tryal. They ar givn here broadly for personal notes of specialists and other close clasifyers, to whom their vast practical advantajes wil strongly appeal, and as a key to notation on I I B bibliografic cards. Elaborate details and explanations ar in *Classification décimale*, Brussels, 1905, of which a new edition is announst for 1927. Obviusly these simbols allow subdivision of the same number in many different ways without confuzion.

The most important of these devices ar *3 Relation syn* and *6 Place syn* and their use in libraries where they hav been tryd has proved that it is entirely practicabl, even for marking books.

The wide and ever-growing ranje of application of certain subjects makes it imposibl to subdivide satisfactorily by assyning definit numbers, but use of colon to show relation between 2 subjects provides an automatic method which can be uzed with any subject for unlimited subdivision. (For ilustration see note under 150 Sykolojy.)

Use of ( ) round a local number provides an automatic method of local subdivision for any subject, as there may be need in an individual library, while the simbol shows instantly the *local* nature of the subdivision.

1 Accretion syn + This simplest of simbols, equivalent to 'and', indicates exactly what it sugjests, that the articl so numberd treats of all subject numbers connected by +; e. g. 637 + 614.32 a work concerning dairies and also on inspection of dairy products.

2 Cupling syn - This is uzed for cupling to a subject a serics of subdivisions common to a group of subjects, as 400 Filolojy (e.g. 45-3 Italian dictionary, 45-4 Italian sinonims, 45-5 Italian grammar; 46-3 Spanish dictionary, 46-4 Spanish sinonims, 46-5 Spanish grammar), 800 Literature (85-3 Italian fiction, 85-4 Italian essays, 85-5 Italian oratory; 86-3 Spanish fiction, 86-4 Spanish essays, 86-5 Spanish oratory), 546 Inorganic chemistry (546.51-3 Oxids of led, 546.51-4 Sulfid of led, 546.51-5 Chlorid of led; 546.56-3 Oxids of copper, 546.56-4 Sulfid of copper, 546.56-5 Chlorid of copper; 546.57-3 Oxids of silver, 546.57-4 Sulfid of silver, 546.57-5 Chlorid of silver). It shud, however, be uzed only where such use is specificly mentiond in the Tables, as confuzion wud otherwize result. This syn is so similar to that commonly uzed for 'to and including' that when it is uzed with Institut meaning it is advizabl to uze word 'to' for the other meaning.

3 Relation syn : This is most useful simbol of all, as it involvs no chanje of number except omission of final o by those preferring shortest form. It indicates merely that subjects so connected ar *considerd in relation to each other*, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or, better, in ful 170:700). Vice versa, art in its ethical aspect is 7:17 (or 700:170); order of

numbers before and after colon depending on emfasis, or on subject with which they ar to be arranjed.

4 Form syn (0) Form or jeneralities ar exprest by a parenthetic number beginning with 0. This is further subdivided as follows:

(0:) Form simbol; e. g. 335(0:843) means Socialism treated in form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is further subdivided and in sum cases modifyd by a hyfend figure; e. g. 9(44) (001-3) means *Catalog* of *official* sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists etc.

(01)–(09) ar the same as our regular form numbers 01–09. Obviusly we can not replace our long establisht simpl form numbers by sumthing so much more complex that it is impracticabl for shelf use.

5 Universality syn ∞ The mathematical syn of infinity is uzed with place and time syns to mean 'Without limitation': with place syn (see 6 below) it means 'including all places', e. g. 9 (∞) History of all cuntries; with time syn (see 8 below) it means 'covering all periods', e. g. 9 (∞) " ∞ " History of all cuntrics at all times.

6 Place syn (3)–(9) These replace our regular cuntry subdivisions found in 930–999, but do not conflict, as I I B merely leavs D C 930–999 vacant, and writes History of France 9(44) insted of 944. Other auxiliary place numbers indicating jeneral rejion, direction, jeolojic place, prehistoric time, etc. ar also provided in place curvs.

7 Languaj syn = This syn preceding languaj numbers as found in 400 Filolojy, indicates subdivision by languaj; e. g. 523.5=9185 means a work on meteors, in Polish, 91.85 being filolojy number for Polish languaj in 400.

8 Time syn " " Numbers denoting time division ar writn in quotes. I I B skeme givs an elaborate time-division sistem based on exact dates; e. g. " 1922. 12. 11 ", meaning year 1922, 12th month, 11th day.

9 Jeneral points of view syn 00 Each of the following numbers for point of view (except 005) has also a series of subdivisions:

001 Speculativ: idea, purpose, plan etc.
002 Realization: execution, construction etc.
003 Economic: industrial production, cost and sale prices, etc.
004 Servis and use: workings, administration
005 Equipment and apparatus
006 Bildings and establishments: details of organization and servis
007 Special personnel

10 A to Z Alfabetic arranjement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these simbols in clas number may be varid by uzers to produce any special arranjement wisht, but unless distinct notis of this is givn, sequence is arbitrary in the following order:

( ) " " = : - A-Z

e. g. 9(44)"17" = 2 History of France in 18th century, writn in English

Other uses

Tho this sistem was devized 1st for library catalog and shelf arranjement, 54 years hav developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this clasification has been found a great laborsaver, whose practical usefulness has exceeded the most sanguin hopes of its erly frends.

Bookstores The plan is a great convenience to both dealers and customers, when applyd to miscelaneus stok. Very often a much wanted book, specialy if not recently publisht, is reported 'not in stok', when D C arranjement by subject wud hav reveald its place at once. Specialists often find on shelvs books they wud never hav orderd, but ar glad to by after examination. Experience proves it profitabl for a dealer to arranje his books so each person may find what he is interested in without examining entire stok.

Offis files A great file of papers is like a library in miniature. Experience the world over proves that while alfabetic and numeric sistems ar invaluabl for many purposes, complete usefulness demands close clasing as material grows. The best plan is to combine simplicity of numeric and utility of clast as in this Decimal Clasification and Relativ Index uzed by most libraries. The simplest posibl printed index of 43,000 heds tels instantly by what number to mark or to find any paper. Insurance is markt 368. This means: clas 3, Sociolojy; division 6, Associations and institutions; section 8, Insurance. Fire insurance is 1st subdivision, so every paper about fire insurance is markt 368.1 and goes in the drawer in numeric order, where it can instantly be found thru the printed Index.

54 years use in a score of cuntries has proved this numeric sistem, with its Relativ Index, a marvelus laborsaver. Clasification is a necesity if all material on any givn subject is to be redily found. The labor of making one's own clasification is uzualy prohibitiv, if wel dun. By adopting the skeme in jeneral use by libraries this labor is saved and numbers ar in harmony with those of thousands of other catalogs and indexes in which the same number has the same meaning; for, as pointed out at a recent international congress, these numbers ar the only international languaj of perfectly definit meaning amung all civilized nations; and also cheapest and quickest in application.

A successful man is uzualy a clasifyer and chartmaker. This applys as much to modern business as to syence or libraries. Hyer education differs

from elementary in studying not mere facts, but their *relations to all other facts*. Alex. Bain wizely said 'to lern to clasify is in itself an education'. The man of much business or affairs must study every problem in its manifold relations; i. e. must clasify and make charts of his results. Without these he is like a sailor in stranje waters, sooner or later shiprekt unless he uzes charts to find safe channels as wel as to avoid roks and shoals. A larj business or work unclasifyd or uncharted is not a worthy organization but mere material from which a clever brain may construct one. It differs in efficiency from the ideal as a mob of men differs from a wel disciplind army. Piles of brik and mortar ar not a templ any more than heaps of typ ar Shakspere's works, tho if 'clasifyd' and set, each in ryt relation to the rest, the transformation is bro't about.

Scrapbooks The plan has proved the best for keeping newspaper clippings. Uze manila sheets of uniform size (we find 20x25cm best) Write clas number of subject in uzual place on paje, and mount clippings on sheets as in a common scrapbook. These sheets ar arranjed numericly like a clast card catalog, sheets of each clas being further arranjed, when desirabl, under alfabetic subheds. When one sheet is ful, insert another at the exact place. Thus perfect clasification is kept up without blank sheets, and at smallest outlay of money and trubl. Scraps thus mounted ar shelvd either in manila pamflet cases or in patent binders, or ar kept in vertical files.

Index rerums These ar best made on standard P size (7.5x12.5cm) cards or slips. Lyt weight catalog card stok is best for private indexes, etc. It costs only $\frac{2}{3}$ as much as hevy bristol, takes only $\frac{2}{3}$ room, and handls eazily.

Where durability and convenience of handling ar les important than cheapness uze common hevy writing paper. Novises often greatly diminish usefulness of the card sistem by uzing ordinary machine-cut cards or slips varying in hyt so much as to make quik and accurate manipulation imposibl. Extreme variation to be tolerated is 1 mm or $\frac{1}{25}$ inch. This wil be understood by placing a 7.4cm card between two 7.5cm cards. In rapid turning, fingers make a brij across taller cards and mis the lower one entirely. Cards must be accurately cut or they lose half their value and in many cases necesitate recopying material at a cost 10-fold greater than to hav thrown away imperfectly cut cards or slips at the outset.

Clas number is writn in upper left corner, any alfabetic subject hed follows at ryt, and notes fil card below. Cards ar then filed in order of clas numbers, the cards of each clas being further arranjed like scrap sheets, according to any alfabetic subheds.

Paper the size of scrap sheets, 20x25cm, arranjed and stored the same way may be uzed insted of cards. This has the advantaj of a ful letter paje in syt at once, and holds over 5 times as much as card. While the sistem can be applyd to slips or sheets of any size, there ar literaly hundreds of accessories and conveniences exactly adapted to these 2 sizes, which ar uzed much more than all others combined; so it is folly to begin on another size, and lose the advantajes of this uniformity. If intermediate sizes must be had, the best ar Billet 10x15cm, Note 12.5x20cm, and Ms 15x25cm. Often uzers of sum other size finaly find it profitabl to chanje to either P, 7.5x12.5, or to L, 20x25cm, even at cost of rewriting many notes.

After 50 years use of P size, countless millions of cards ar in catalogs and indexes in scores of cuntries, so it wud be quite imposibl to chanje from 7.5x12.5cm. But recent study and experiments hav shown that sheet or room proportions ar most pleazing in ratio of 1 to square root of 2, or about 5 to 7, i. e. ratio of the side of an equal-side triangl to its hypotenuse. An immense practical advantaj is that this is the only ratio where continuus halving givs always the same ideal proportion. This results in markt economy in cutting sizes from larj standard sheets. The favorit letter sheet is 19x27cm. This fits most vertical and other files. We now uze it insted of 20x25 and 15x25. Half this size is a pleazing small quarto, 13.5x19, and its quarter is a very convenient pocket size, 9.5x13.5cm. These replace our old Note and Billet sizes.

Note books ar best in loos-leaf form. A much poorer method is to take a bound blank book, and assyn clas numbers in order, giving about the space it is tho't each wil require, and, when pajes so assynd ar ful, note at bottom where rest of the material may be found. This has all objections of old fixt location as compared to relativ, and wil hardly be adopted by any person who has ever seen loos-leaf simplicity and economy.

Scores of devices for convenient handling and storing of these slips and sheets and of pamflets ar manufactured. The ful descriptiv and ilustrated catalogs of Library Bureau giv details.

Topical indexes Clas numbers ar uzed to index books red. Simpl numbers take the place of a series of words, and results can be handld, arranjed and found much quicker. Such entries may be kept separate or combined with index rerums.

Advantajes for making topical indexes of colected works, periodicals, transactions etc. wil be evident to every indexer or librarian. These consolidated indexes may be arranjed together with the card catalog of the books, or by themselvs, as seems best in each case.

These ar only a few of the sistem's varid applications. Enuf hav been mentiond to show its wide adaptability to wants of librarian, student and business man.

Separates

There is growing use by specialists who wish very detaild tables of their own subjects, but only so much else as wil show perspectiv of these subjects in the jeneral skeme and provide for broad clasification of other material on the same plan. As fast as demand wil cover expenses, any subject elaborated wil be publisht separately with jeneral explanation,

directions for use, 3-figure tables for other subjects, and ful index; e. g. normal skool libraries specializing on education wil want the elaborate 370 skeme but may not need to carry clasification of other subjects beyond 3 figures; electric enjineers may hav no use for 370, but wil need all details of 621.3, with only 3 figures for other subjects.

This brief account has probably faild to meet sum objections which may be raizd and could eazily be anserd.

Tho much elaborated and in sum few points alterd, the essential caracter of the plan has remaind unchanjed from the first. Revision and expansion constantly in progress involv many new interrelations. As extensiv advance testing of new skemes is not always posibl, practical applications ar sure to develop unnotist faults. Clasifyers ar therefore askt to uze new tables criticaly and report defects of any kind, with proposed remedies and any needed subdivisions, also any heds needed for the Index. All such criticizms ar a decided help and favor.

Aknowlejments

The labor on Clasification and Index has been wholy beyond appreciation of any who hav never attempted a similar task.

In his varid reading, correspondence and conversation on the subject, the author has doutless recievd many sugjestions and gaind ideas which it is now imposibl for him specificly to aknowlej. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he copid nothing from it, more than any other singl sistem stimulated his study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in sum respects resembld his own, wer not seen til all essential features wer decided on, tho not givn to the public. In filling the 9 clases of the skeme, the inverted Baconian arranjement of the St Louis Library was followd. The author has no wish to claim orijinal invention for any part of his sistem where another has been before him, and wud gladly make specific aknowlejment of every aid and sugjestion wer it in his power. Tho at its start a litl book, it came not forth except by grievus labor.

Much valuabl aid has been renderd by specialists, who hav assisted greatly in developing tables. Amung these ar many wel-known skolars, and to all most cordial aknowlejment is made. Without such assistance, the present development cud not hav been attaind, for many minds wer necesary to supply teknical and special lerning absolutely essential in filling minute heds. Indeed, in many subjects the author's share has been limited to modification necesary for teknical adjustment to his skeme, of material prepared by specialists. To many prominent librarians we ar indetted for valuabl sugjestions and appreciativ criticizm.

While these frends ar in no way responsibl for any remaining imperfections, they shud hav credit for many improvements made in these 54 years of revision, during the 1st 3 of which the skeme was kept in manuscript, that its many details myt be subjected to actual tryal, and modifyd where improvement was found practicabl.

We ar under deep obligation to Institut International de Bibliographie for its great volume of valuabl work, covering almost the whole ranje of subjects, and also for its advice and criticizm during progress of our own expansions. To Dr C W Andrews, John Crerar librarian, Chicago, and to American Library Association clasification committee, of which for past 10 years he has been chairman, we ar greatly indetted for interest and advice.

W S Biscoe From 1st publication to the present, the most extended and valued assistance has cum from my colej clasmate, associate and frend, Walter Stanley Biscoe, my 1st assistant in Amherst College Library, in charj of which he succeeded me, resyning to accept again in 1883 the place next me in Columbia College Library, and again resyning in 1889 to becum librarian in charj of clasification and catalogs in New York State Library. This book is witness to the rare unselfishness with which he has givn time taken from rest and recreation to this work, in which he shared my interest and faith.

May Seymour Except a year in charj of clasification in the Osterhout Library she was with me 34 years, from her entrance to the 1st Library School clas in 1887 til her deth, June 14, 1921. At New York State Library, clasification was her department til she was made director's assistant. For 32 years every item of work on new editions past thru her hands. For each of editions 4–10 she did all editorial and much constructiv work, secured expert cooperation, cald attention to faults or omissions, and sought the best availabl compromize where doctors disagreed, devoting to this vast labor rare skolarly industry and a loyalty for which no words of thanks can be adequate. She shared my faith in its immense usefulness, did the hardest work, and deservs the gratitude of all who profit by this invaluabl laborsaver. I often askt that her name appear on the title-paje of the book to which she gave so much, but she persistently refuzed.

Her place as editor was taken by one of her own choosing, Dorcas Fellows, who more than anyone else had workt closely with Mis Seymour for 25 years, and who wil giv future editions the benefit of cumulativ experience in which she so larjly shared. D C uzers ar congratulated that Mis Seymour's position is held by the one whom she herself chose as best adapted to carry on her work. For 5 years past her hedquarters hav been in New York State Library at Albany, which has long been regarded by many as D C's library home, but recent developments in relations of American Library Association, Library of Congress and Decimal Clasification hav resulted in an invitation from L C to D C to make its home henceforth at that Library, where, most appropriately,

D C's servis to American libraries, which is the chief factor in its work, wil be coordinated with undertakings previusly instal'l by the national library, extending stil further the latter's alredy great servises to the libraries of the cuntry at larj.

Future of D C

Mis Seymour had a stedily growing wish to make D C a permanent force for education, by greatly improving its ful, short and outline editions, and by printing cheap special editions (indext) for many prominent divisions; e.g. education, medicin, enjineering, agriculture. As a memorial to her, all copyryts and control of all editions hav been givn to Lake Placid Club Education Foundation, in establishing which she had been warmly and activly interested, and which was charterd by the University of the State of New York, Jan. 26, 1922, with these objects:

'as an educational institution, to restore to helth and educational efficiency teachers, librarians and other educators of moderate means, who hav becum incapacitated by overwork; to establish, maintain and aid skools, libraries or other educational institutions, specialy at Lake Placid; and to institute, organize or foster other movements to advance public welfare thru education, by means of the Foundation pres, conferences, forums, addresses, gyded reading, and similar ajencies'.

To this Foundation was at once givn all voting stok and surplus of Lake Placid Co. which owns the 10,000 akers and 391 bildings of Lake Placid Club, thus assuring permanent financial support, which has alredy been further increast by gifts and bequests from interested frends. Under Foundation auspices future editions of D C wil be publisht, on absolute condition that entire reciets abuv necesary expenses be uzed forever solely for improving D C and extending its usefulness, thereby preventing posibility that the work shud ever be made a source of either individual or institution profit. A committee on D C, consisting of the most interested Foundation trustees, in consultation with committees of American Library Association and Institut International de Bibliographie, wil insure observance of the abuv condition.

D C has becum an international laborsaver. It therefore justly belongs to its uzers as a whole. All who contribute to the stedy improvement of future editions may kno that they ar helping to make stil more useful a sistem which is so greatly helping stedily increasing thousands scatterd all over the civilized world.

MELVIL DEWEY

LAKE PLACID CLUB N Y
Dec. 10, 1926

Previus editions hav been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885, and Aug. 30, 1888; New York State Library, Dec. 25, 1890; Lake Placid Club, Ap. 10, 1911, Ap. 10, 1913, Oct. 1, 1915, Aug. 11, 1919, and Aug. 31, 1922.

SIMPLER SPELING REAZONS AND RULES

Reazons

[1]Uzers of the Decimal Clasification ar entitled to kno why the author feels compeld to recognize practicaly the urjent claims for reform in English speling, by adopting enuf of many needed chanjes to call every reader's attention to the crying situation.

Many wil be annoyd and sum wil ridicule, but since 1872 I hav constantly studid, with very unuzual opportunities, the need and practicability of this reform. From its founding in 1876 at the Philadelphia Centennial, I hav been secretary of the Speling Reform Association. I servd several years on the advizory committee on speling and pronunciation for our greatest and best English dictionary, the Standard. While executiv offiser of the University of the State of New York, which has charj of all hyer education, I uzed my great opportunities for studying relations of speling to education. As a trustee and on its Executiv Board I hav shared activly from its orijin in Simplifyd Speling Board work, to which Andrew Carnegie gave (up to his deth) $10,000 to $25,000 yearly to spred correct knowlej about English speling and the great need for its improvement. I also servd on the National Education Association committee which, jointly with committees of the American Filolojic Association and Modern Languaj Association, during 10 years careful study made the key alfabet now uzed in the entire series of Standard dictionaries and in all books based on them. I was president of the Efficiency Socyety and also of the National Institute of Efficiency, and chairman of the committee of each on 'Efficiency in English writn and spokn'. It is therefore not an advocate of a new fad who speaks, but one who has for over 50 years kept in tuch, personaly and by correspondence, with others studying this matr, not only in many American states but also in Canada, Great Britain, India and Australia, and with many in non-English speaking cuntries.

In the past ½ century the most competent jujes hav cum to almost unanimus agreement as to imperativ need for radical improvement. On this point great universities, editors of all great dictionaries, leading educators of the English world, and recognized leaders amung students of English all agree. It has been publicly stated in larj meetings of languaj skolars that there was no recognized authority on English living who did not now believ in the urjent need of speling reform.

But as to the best *method*, there ar 3 skools with their varius combinations. All agree that there is only 1 entirely satisfactory goal; i.e. just 1 distinct syn for each of 40 distinct sounds, and just 1 sound for each of these 40 syns. But we now hav over 500 simbols or combinations to represent these 40 sounds. 'Shay' has only 2 simpl sounds. The

[1] See note on spelling of Ed 14 on back of title-page

sh is speld in 20 ways and the *a* in 24 ways; i.e. this simpl word of only 2 sounds may be speld 480 ways in exact analojy with other English spelings. Webster's *Dictionary* says Shakspere's name was speld 30 ways; the Mainwaring family records sho 130 variations in their name; and A. J. Ellis made over 6000 spelings of 'scissors', all justifyd by dictionary analojies. Booker Washington told me that they wud not graduate from Tuskegee one who cud not spel and pronounce correctly this sentence: 'Though the rough cough and hiccough plough me through I ought to cross the lough'. We markt agenst each letr all the different ways of pronouncing it in English. By simpl permutation this showed over 16,000,000 ways in which this sentence cud be pronounst. Then we markt agenst each sound all the different ways of speling it and proved that there wer 66 decillion (66,000,000,000,000,000,000,000,000,000,000,000) ways of speling the sentence, each justifyd by analojy. Yet he was soliciting money to teach those poor colord students just which of this infinit varyety must be uzed, before he cud graduate.

One group believs in ading 6 new consonants for *ch*, *ng*, *sh*, *zh*, *th* and *dh*, and 11 new vowels; for as *c*, *q* and *x* duplicate *s*, *k*, *kw* and *ks* or *gz* we hav only 23 letrs toward the 40 needed in a perfect English alfabet. These letrs wud then be uzed with as invariabl meanings as arabic numerals and we shud be rid of varius devices for expressing sounds for which we hav no distinctiv letr; e.g. for the word 'fyn' we ad *e* to 'fin' and say that 'servil e' is silent where writn, but means that the *i* in erlier part of word is not *i*, but the difthong *ai*, combined of the sounds of *a* in 'ar' and *i* in 'it'. This is exactly analogus to writing 4537 and saying that 7 is silent but means that the 5 is realy 9, so the number is 493. We ar so uzed to these absurdities that we recognize their folly only when translating them into an exactly similar case with arabic numerals.

When these wer introduced into English the identical arguments put forward today agenst syentific speling wer urjd agenst the stranje arab caracters. Men said, 'Every child knows at a glance that V is five, but who cud understand ۵?' which they printed lying on its face.

No one questions that *complete* reform is best. Most skolars, however, think it impracticabl to do it all at once except amung a limited clas, becauz of difficulty of introducing new letrs on typwriters and for printers. We hav evolvd *i*, *j* and *y* from 1 letr, and *u*, *v* and *w* from *v*, and skolars say we shal in time, in same way, evolv the other new letrs needed.

The Simplifyd Speling Socyety of Great Britain attempts to solv the problem without any new letrs by uzing digrafs, as we hav alredy dun for *ch*, *ng*, *sh* and *th*. This has the advantaj that every typwriter and printer is fully equipt for new speling. It has the great disadvantaj that it lengthns many words and offends the eye much more than new letrs. It is as absurd to use *c* and *h* to represent a sound which has neither *c* nor *h* in it as it wud be to uze 74 to represent 5.

The Simplifyd Speling Board (American), supported by Andrew Carnegie til his deth and now working on its own resources, decided that the most practical plan was to list a limited number of most needed chanjes, to urj for immediate jeneral adoption, thus expediting the stedy growth toward syentific speling shown by the history of English. This method is eaziest but involvs glaring inconsistencies; e.g. it drops 1 of dubl consonants final in most cases, speling *mis*, *dol*, *tel*, but leavs *all*, *roll*, *hiss*, *off* becauz they wud be mispronounst by most peopl if shortnd.

1 word is speld perfectly like 'fel', perhaps the next is improved in only 1 silabl like 'acquisitiv', and the next may be worst of the 3 and not chanjed at all becauz we lak necesary new letrs, e.g 'functioning'. S S S (English) is *consistent*, for it spels each word foneticly, and this entire consistency appeals to sum so much that they endure longer awkward forms. S S B (American) offends the eye much les and *shortns* nearly every word it chanjes, but has the fault of incompleteness.

The 5 reazons for speling reform ar:

1 **Disgrace** of having what experts agree is the most illojical, unsyentific, unskolarly and altogether worst speling of any languaj in the world. While this greatly discredits the peopl that hav becum greatest in all history, it is least of the 5 reazons.

2 **Criminal waste of money** Careful count of many English selections shows that 15% or 1/7 of the letrs wud be saved by strictly syentific speling. This means waste of 1/7 total cost of everything connected with writing or printing English: stationery, time, composition, proofreading, paper, ink, preswork, binding, transportation. Not only ar these countless billions wasted each year, but there is enormus waste of time in hesitating as to ryt speling, consulting dictionaries, interrupting train of tho't, which fairly translated into money makes a staggering total.

3 **Criminal waste of skool time** A committee of expert educators, after munths of consideration, agreed that on the skool life of a child going from kindergarten to university we cud save 3 years if we cud eliminate speling books and everything connected with them, as is dun in completely fonetic cuntries, where speling is merely pronouncing a word letr by letr, so anyone can spel if he can speak. This waste is not alone in speling clases, for in all other studies speling is a continual handicap and wastes time not only in skool days but all thru life.

4 **Adling brains** Any student of child sykolojy knows that one cud hardly devize a more dedning process to a normal brain than to teach such words as *bone*, *done*, *gone*; *love*, *move*, *rove*; *lose*, *close*; or, worst of all, *Though the rough cough and hiccough plough me through I ought to cross the lough.* If the brain works normaly the child surely pronounces the vowels of the later words like the 1st. If 'though' is 'tho', surely 'rough' is 'ro' and 'cough' is 'co'. Long before he reaches the 8th word he is

redy to believ any absurd thing that is told him, and finds in English it is a matr of personal introduction to each individual word before there is any safety as to how it may be speld or pronounst. Ex-president Hill, of Harvard University, declared that no man ever had or ever cud spel and pronounce every word of English correctly, as it was beyond human posibility to becum intimate enuf with all the ½ million words in the latest dictionaries.

An associate city superintendent of skools in New York says:

'Next to lerning by imitation, the child must be taut to lern by association and analojy. He develops strength of mind by exercize of jujment. He must reazon from known facts in the solution of his litl problems. If he cums to a new printed word and halts, the teacher asks him to think of the oral word for which it stands. Having lernd that 'puff' and 'muff' stand for wel-known oral words, he is staggerd at 'rough' and 'enough', frequently uzed in conversation. Having lernd that these caracters stand for wel-known spokn words which he wrote 'ruff' and 'enuff' from his knowlej of 'puff' and 'muff' he is again confuzed when the teacher tels him that 'dough' is the speling of the wel-known word his mother uzes when speaking about bred-making, and that 'cough' stands for the malady so prevalent in the nursery during winter time.

The staje of the child's tuition during which all the similar incongruities of our speling must be masterd, occupys many years of skool life, and the process has wel-ny produced a disbelief in reazon as a means of lerning, and a total lak of confidence in inference. The result of falling into absurd and ridiculus situations thru exercize of his jujment appears in a hesitancy or fear of drawing any inferences upon data relating to other fields of knowlej. The child has lost faith in his own conclusions with respect to problems in arithmetic, biolojy, jeografy, history etc. To what extent of subject matr and time the skool child has sufferd irreparabl los, by failure to aquire confidence in exercize of his jujment as a result of his erly stultification during process of lerning to master speling of common words, may never be determind.'

5 **English as world languaj** Except for its scandalusly complex speling, English is betr fitted than any other languaj for universal use. It is practicaly grammarless. Pedants hav sadld us with an adaptation of Latin grammar which is almost useless. English has strength, simplicity, conciseness, capacity for taking words freely from other tungs, and best of all has the greatest literature the world has yet produced. Great German filolojists hav said 'it is lucky for the rest of Europe that the English do not realize that only its absurd speling stands between their languaj and erly world empire'. If we chek over the past 5 centuries the growth of English is astounding. Once Portuguese with its great Brazilian cuntry had sum chance, or Spanish with South America, but French came to be the languaj of diplomacy and more than any other the world languaj. Each century Germany, with its hy birth rate, gaind rapidly, and it soon past France. Russia with its countless millions came in as a leading competitor, but each century the most significant and remarkabl

growth was English. Long it was English, German, French; then English, German, Russian. The World war sadly handicapt all other competitors just when it greatly improved the position of English. 3/5 of the world's business mail is now in our languaj and this ratio grows yearly. Recent prominent French jurnals hav frankly publisht to their peopl *the need for every Frenchman to lern English* becauz it was alredy the world's business languaj and rapidly growing. The far-syted Carnegie made his great gifts for simplifyd speling for 2 chief reazons. He had givn the Peace Palace at the Hague, and recognized that a common tung was the greatest protection agenst war. His study of history taut him that race, color, relijion and jeografic location had les influence than a common tung in binding peopl together. Our fraze, 'He doesn't speak the same languaj', indicates hopelessness of agreement. He knew that no force wud contribute so much to world peace as spred of a common tung. He knew that this wud carry Anglo-Saxon ideals of liberty and tolerance thruout the world. The canny Scot knew also that it wud do more than all else combined to extend and strengthn our commerce.

Can anyone not blind to human welfare face these undouted facts and not feel *bound* to help on wherever practicabl a reform that many educators and publicists recognize as more important and as having more far-reaching results for America and the world than any other? The solution to most of our social problems lyz not in lejislation and police, but in *education of the masses* so that they wil *kno and prefer the ryt.* Such education must be *chiefly thru reading*, for the great mas of peopl can be in skool only long enuf to lern to take from the printed paje the author's meaning. Their real education must be not in the few skool days in youth, but all thru life and cuming chiefly from reading books, magazines and papers. Those who believ in working for a betr world must see that the 1st great step is to take from the path of education this greatest stumbling blok, for our speling not only wastes millions of years for every jeneration, but dedns and dwarfs childhood's brain by its gross absurdities. Can anyone not a selfish moral coward, knowing these facts, refuze to help get rid of the incubus by uzing at least a few of the shortr, betr forms in his own writing?

Disregard of pedants rules Thomas Jefferson said 'Where strictness of grammar does not weakn expression it shud be attended to, but where by small grammatical neglijences the enerjy of an idea is condenst or a word stands for a sentence, I hold grammatical rigor in contempt'.

Study of the past 5 centuries shows how greatly English has been simplifyd and improved and how absurd is the frequent comment of those ignorant of the life history of English that 'languaj can't be chanjed by conscius efforts of its uzers'. Of thousands of improvements made in the last 500 years every one was *uzed 1st* by sumone who saw the need and had the moral curaj to be a pyoneer and disregard rules of pedants of

his day. The greatest need of the English world is to simplify its languaj, specialy in speling, so it may be uzed by all nations. It is disgrace to be blind to the facts or to be too cowardly to uze sum at least of the needed chanjes and so risk criticizm or ridicule of the ignorant. The great function of English is to *convey author's tho't clearly and compactly to reader's mind.*

Arabic figures ar the simplest simbols known to man. It is silly to write out 'eighty-eight' or 'LXXXVIII' for the simbol 88, or to write 'three hundred seventy-eight' with 24 letrs when 378 is 1/8 as long and vastly clearer. Modern pressure for space and economy has led many prominent jurnals to substitute figures for words, but most of them stil fear the silly pedants dictum that figures must not begin a sentence. But figures ar winning their way, specialy in hedings, and our descendants wil wonder at our stupidity which so long prevented ful use of 1 of the world's greatest laborsavers. It is like continuing wigwag signals after invention of telefone and wireless.

37 years ago I advocated dropping useless *al* from *academical, grafical* etc. Persistent use was copid by others til now many of our best writers avoid the foolish *al* and get stronger as wel as shortr words. When ading adverbial *ly* we shud stil omit *al* and say *graficly, academicly* etc. In fact very few peopl pronounce the *al* in common speech. If we adopt Thomas Jefferson's standard we shud expedite greatly many needed improvements in our great mother tung.

Consistency This is the hobgoblin bugbear of litl minds. If a printer sets typs which realy shud be omitted or chanjed we often avoid expense of correction; for consistency with other spelings is les important than to break down by combined efforts of skolars and men of affairs the immense and stubborn, pedantic, foolish prejudis which sees sumthing sacred in the common speling of a word, while it thinks litl of constant variations in its pronunciation. Many who wud gladly help the cauz ar too busy with larj affairs to spend time in looking up rules. They shud simply spel betr whenever they think of it and not be trubld if on the next paje they forget to simplify. Hav Thomas Jefferson's curaj and hold pedantic consistency in contempt.

Conciseness We shud uze shortest forms of expression consistent with clearness. The 2d forms belo ar as much stronger and betr as they ar shortr:

this has been found to be an encurajment to good work — this encurajes good work
extend an invitation — invite
take into consideration — consider
the purchase of — bying
purchasing ajent — byer
a larj number of — many

due to the fact that — becauz
sum of $10,000 — $10,000
in a prudent manner — prudently
put in an appearance — appear
the twenty-eighth day of May in the year of our Lord one thousand eight hundred and ninety-nine — 28 May 1899 (*79 vs 9 typs*)
it is often the case that authors fail — authors often fail
giv the boundaries of — bound

Can it be dun? Absurd spelings like old 'fysshe' and 'dogge' for 'fish' and 'dog' ar slufing off useless letrs as a tadpole loses its tail, or as scum rizes from boiling sap in a maple orchard. Samuel Johnson in 1755 printed a dictionary which greatly delayd this natural process. Uzing neither rime nor reazon he embalmd in a book, with the weight of his great name, simply the usaj of London printing offises, which wer run almost wholy by Dutch and German printers, many of whom knew no English. He laid down as a sacred law, '*Uphill* with 2 ls' but '*downhil* with 1', and endless similar absurdities, at which we laf, but we hav made 'downhill' as difficult as his 'uphill' and stil look askance at one who spels 'til' as he does 'until'. Our greatest filolojist, William D Whitney of Yale, editor *Century dictionary*, wrote to our 1876 International Conference on Speling Reform a concise statement which has been very often reprinted, and I think never questiond by any competent authority: 'The true and sole offis of alfabetic writing is correctly to represent spokn speech'. Writing is attempt to convey to 1 at a distance (either in space or time) what wud be spokn to 1 close at hand, and therefore writn word shud represent spokn word as exactly as posibl.

Many chanjes wer merely corruptions resulting from slipshod pronunciation and lak of accurate speling, which wud hav been a relyabl gyd. Always many chanjes ar inevitabl in any languaj, as its words and idioms gro, dy or chanje, in pronunciation, speling and meaning. To continue old spelings after words hav chanjed is as absurd as to continue old price quotations insted of following the market. Englishmen ar conservativ but we hav substituted (tho only long after other nations) arabic numerals for the clumsy I, V, X, L, C, D, M; we hav a reazonabl and uniform way of writing music; we ar soon (again last of civilized nations) to uze international metric mesures, thereby saving countless millions. Practical business wil not much longer endure the costly tirany of the ½ educated and wholy unbusiness-like and inefficient pedant. So if the intelijent wil do their duty we shal expedite greatly the stedy growth of English toward simplicity, strength and efficiency. That infinitly desirabl process can be bro't about only by pyoneer adoptions by those who hav both knowlej of the great need and curaj to lead in a cauz bound to be unpopular with those ignorant of fonolojy and of the vitaly important reazons which hav

compeld all dictionary makers and great English skolars to declare in favor of simpler speling.

It is sumtimes askt why, if editors of the great dictionaries favor simpler speling, the dictionaries themselvs uze it so slytly (tho latest edition of *Webster* has 3000 more simpler forms). This anser is givn by the *Standard:* 'The chief function of a dictionary is to record usaj, not, except in a limited degree, to seek to create it'. Consequently it is not til a word or form has made its way into sumwhat common acceptance that it can look for dictionary recognition. Other cases where the interest which myt be expected *seems* to be lacking on part of simpathizers ar those of authors, educators and men of affairs, who, if left to follo their own jujment and preferences, wud gladly uze simpler spelings but who ar prevented from doing so by official connections or rules of their publishers.

Rules

We print belo 7 of the best known codes, for convenient reference when one wishes to decide with what chanjes he wil start his betr speling. All wil doutless uze the 12 words and most wil be glad to adopt S S B 30 words, chozen with great care by leading skolars as the best small beginning for the averaj man. These ar simply sampl words. S S B alfabetic rules represent expert jujment of distinguisht filolojists as to chanjes desirabl and practicabl to recommend for erly jeneral adoption. These ar followd by 18 rules, which comprize an erlier list and, forming the basis of the alfabetic list, larjly duplicate it but ar included here for convenience of those who wish a selection of the most important. A compact dictionary list of all English words coverd by S S B rules wil be sent on application.

The 5th code is our D C rules, uzed in adition to S S B rules, by those willing to pyoneer stil faster. The 6th code, a selection from U S Jeografic Board rules, and the 7th, the 10 joint rules of American and English filolojists, ar aded for reference and to sho by repetition in different codes how closely the best authorities ar in harmony.

To all governd by *reazon* rather than by vizual *prejudis* the objection to simpler speling that 'it looks queer' will be more than offset by the arguments, both skolarly and practical, in its favor; while those who shrink from uzing simpler forms thru fear of being regarded iliterate may find curaj thru knowing that the movement is supported by the most eminent filolojic authorities, and there wil be litl danjer that even the silliest of their correspondents wil bring the charj 'they don't kno how to spel', as result of their uzing simpler forms for such common and short words as **ar, giv, hav, shal, wer** and **wil.**

N E A 12 words

The National Education Association in 1898 adopted for use in all its official correspondence and printing the simplifyd spelings widely known as 'the 12 words', **catalog, decalog, demagog, pedagog, prolog, program, tho, altho, thoro, thorofare, thru, thruout.** In 1916 it adopted rule to simplify *ed* to **t** when so pronounst, in past tenses of verbs.

Simplifyd Speling Board 30 words

This list was chozen with special reference to correspondence, and includes the 5 typ-words, **catalog, program, tho, thoro, thru,** of the 12 words adopted, as noted abuv, by the National Education Association in 1898, for use in all its official publications and correspondence.

ad	**buro**	**fixt**	**reciet**	**(al)tho**
addrest	**catalog**	**giv**	**reciev(d)**	**thoro(ly, -fare,** etc.)
anser (d)	**det**	**hav**	**shal**	**thru(out)**
ar	**engin**	**insted**	**shipt**	**twelv**
askt	**enuf**	**liv(d)**	**tel**	**wil**
bil(d)	**fil(d)**	**program**	**telefone**	**yu**

S S B alfabetic rules

æ, œ, initial or medial. Spel **e**; e.g. **esthetic, medieval, fenix, maneuver, subpena**; but **alumnae, striae** etc.

æ, œ ar now uzualy writn **ae, oe.** Other cases of **ae, oe, medial,** as in **canoeist, Gaelic** etc. ar not affected

bt pronounst **t.** Drop *silent b;* e.g. **det, dettor, dout, indetted, redout**

Retain **b,** if pronounst, in subtil(e)

ch pronounst like **c** in **car.** Drop *silent h* except before *e, i, y* [or uze **k**]; e.g. **caracter, clorid(e), corus, cronic, eco, epoc, mekanic, monarc, skolar, skool, stomac**; but **architect, chemist, monarchy,** or **arkitect, monarky**

dubl consonant before *e final silent.* Drop last 2 letrs; e.g. **bagatel, bizar, cigaret, creton, crevas, gavot, gazet, giraf, gram, program, quadril, quartet, vaudevil**

dubl consonant final. Reduce dubl to singl, but in *-ll* only after a short vowel, and in *-ss* only in monosilabls; e.g. **ad, bil, bluf, buz, clas, dol, dul, eg, glas, les, los, mes, mis, pas, pres, shal, tel, wil,** but not *al* for **all,** *rol* for **roll,** *needles* for **needless,** etc.

Retain **gross, hiss, off, puss**

e final silent. In the following cases drop **e**:

a) After a consonant preceded by a short vowel strest; e.g. **bad** (bade), **giv, hav, liv, centiped** (when so pronounst)

b) In **ar**(*e*), **gon**(*e*), and in **wer**(*e*) when not pronounst to rime with 'there'

c) In the unstrest final short silabls **ide, ile, ine, ise, ite, ive,** pronounst as if speld **id, il, in, is, it, iv**; e.g. **activ bromid, comparativ, definit, determin, examin, favorit, hostil, infinit, iodin, nativ, opposit, positiv, practis, promis, textil**

This **id, il, in, is, it, iv** group shud be chanjed 1st, as the long spelings constantly mislead to vulgar mispronuneiations like *posityv, infinyt, favoryt* etc.

The ordinary use of **e final** after a singl consonant is to indicate that the preceding vowel has a pronuneiation different from that which it wud normaly hav if the consonant in question wer final, as in **bar, bare; hat, hate; her, here; them, theme; sir, sire; bid, bide; con, cone; run, rune.** Henee the **e final** is retaind in sueh words as **arrive, care, fine, mile, polite, ride, rode,** and also in **bromide, iodine** etc., when pronounst with the i of **line, side**

d) After **lv** and **rv**; e.g. **involv, resolv, twelv, valv; carv, curv, deserv, serv**

e) After **v** or **z** when preceded by a digraf representing a long vowel or a difthong; e.g. **achiev, believ, freez, gauz, leav, sneez**

f) In **oe final** pronounst **o**; e.g. **fo, ho, ro, to, wo**

Retain **e** in inflections **-oed, -oes**; as **foes**, not *fos*, **hoed**, not *hod*

ea pronounst as in *head* or as in *heart*. Drop the silent letr; e.g. **bred, brekfast, hed, helth, hevy, insted, lether, plesure, welth, wether; hart, harty, harth** [except in case of derivativs where it wud clearly be betr that pronunciation be made to correspond to root word than that speling be made to correspond to present pronunciation; e.g. **clean, cleanliness**]

ed final pronounst **d.** When the chanje wil not sugjest a wrong pronunciation, drop *silent e*, reducing a prcceding dubl to a singl consonant; e.g. **anserd, cald, carrid, delayd, employd, examind, fild, followd, marrid, pleasd, preferd, robd, signd, sneezd, struggld, traveld, worrid, wrongd**; but not *bribd* for **bribed**, *cand* for **caned**; *changd* for **changed**, *fild* for **filed**, *pricd* for **prieed**, *usd* for **used**, etc.

The **e** is retaind only in cases where it has by eonvention a diacritie use, to indicate a preceeding long vowel, or, in case of consonants, **c** sibilant or **g** pronounst **j**

ed final pronounst **t.** When the chanje wil not sugjest a wrong pronunciation, spel **t**, reducing a preceding dubl to a singl consonant, and chanjing **ced, sced,** final, to **st**; e.g. **askt, fixt, helpt, indorst, wisht; addrest, kist, past, shipt, stopt, stuft; advanst, announst, commenst, invoist, notist; acquiest, effervest**; but not *bakt* for **baked**, *deduct* or *dedust* for **deduced**, *fact* or *fast* for **faced**, *hopt* for **hoped**, etc. (See note to preceding rule)

gh pronounst **f.** Spel **f**; drop *silent letr* of prcceding digraf; e.g. **cof, draft, enuf, laf, ruf, tuf**

gh pronounst like **g** in **gas.** Drop *silent h;* e.g. **agast, gastly, gerkin, gost, goul**

gm final. Drop *silent g;* e.g. **apothem, diafram, flem, paradim**

gue final after a consonant, a short vowel, or a digraf reprcsenting a long vowel or a difthong. Drop *silent ue;* e.g. **catalog, dialog, harang, leag, sinagog**; but not *rog* for **rogue**, *vag* for **vague**, etc. *Tongue* spel **tung**

ise final pronounst as if spcld **ize.** Spel **ize**; e.g. **advertize, advize, apologize, enterprize, franchize, merchandize, rize, surprize, wize**

mb final aftcr a short vowcl. Drop *silent b;* e.g. **bom, crum, dum, lam, lim, thum**; but not *com* for **comb**, *tom* for **tomb**, ctc.

ou bcfore **l**, pronounst likc **o** in **bold.** Drop *silent u*, except in **soul**; e.g. **bolder, mold, sholder**

ough final. Spel **o, u, ock** or **up**, whcn pronounst as if so spcld; e.g. **altho, boro, donut, furlo, tho, thoro; thru; hock; hiccup.** Spcl **plow**

our final, with **ou** pronounst as a short (obscure) vowcl. Drop **u**; e.g. **color, favor, honor, labor**

ph pronounst **f.** Spel **f**; e.g. **alfabet, emfasis, fantom, fonograf, fotograf, sulfur, telefone, telegraf**

re final after any consonant except **c.** Spcl **er**; e.g. **center, fiber, meter, theater**; but not *lucer* for **lucre**, *mediocer* for **mediocre**, etc.

rh initial. Drop *silent h;* e.g. **retoric, reumatism, rithm, rom** (rhomb), **rubarb**

sc initial pronounst as if speld **s.** Drop *silent c;* e.g. **senery, sented, septer, simitar, sissors**; but **scatter, sconce** etc.

u *silent* before a vowel medial. Drop **u**; e.g. **bild, condit, garantee, gard, ges, gide, gild**

y between consonants. Spel **i**; e.g. **analisis, fisic, gipsy, silvan, sithe, tipe**

[We uze **y** for sound in **by** and so retain **y** in **syth, typ** etc.]

S S B 18 rules

1 When *ed final* is pronounst **t**, write it simply **t**, where chanje wil not sugjest incorrect pronunciation, as **askt, fixt, wisht** etc.; reducing a preceding dubl consonant to a singl consonant, as **blest, kist, dipt, dropt, stept** etc.; and chanjing *-ced* to **-st**, as **advanst, pronounst, rejoist** etc.; but avoid misleading forms like *bakt* for **baked**, *deduct* or *dedust* for **deduced** etc.

2 Chanje *ph* to **f** when so sounded, as **alfabet, fonograf, fotograf, sulfur, telefone, telegraf** etc.

3 Drop *e final* after *-lv* and *-rv*, as **delv, shelv, carv, curv, deserv** etc.; also in the endings *-ide, -ile, -ine, -ise, -ite, -ive*, unstrest, pronounst **id, il, in, is, it, iv**, as **bromid, oxid, hostil, textil, anilin, determin, examin, practis, promis, definit, favorit, opposit, activ, nativ, positiv** etc.; and at end of **ar**(*e*), **hav**(*e*), **giv**(*e*), **forgiv**(*e*), **misgiv** *e*), **liv**(*e*); becauz its normal use after a singl consonant is to sho that preceding vowel is long. Hence it is retaind in such words as **bare, brave, mile, fine, wize, polite, arrive**

4 When digraf *ea* is sounded as in *head* or *heart*, uze sounded letr and omit the other, as **helth, hevy, insted, tred, wether, plesant, hart, harth** etc.

5 Substitute **e** for digrafs and ligatures *ae, œ, oe, œ*, when *not final*, as **esthetic, medieval, fenix** etc.

6 When *ch* is pronounst like **c** in **car** drop *h*, except before *e, i* and *y*, as **caracter, clorid, corus. cronic, eco, epoc, arcangel, mecanic, monarc, scolar, scool, stomac** etc.; but **chemist, architect, monarchy** etc.

Rule 6 was later alterd to '**uze k** or **drop h**', so we prefer **k** in **skool, mekanic, arkitect** etc.; for the asender **k** looks more like *ch* than does *c* and it is the form sure to be uzed in the end

7 Drop *silent h* from *initial rh*, as **rapsody, reumatism, rubarb** etc.

8 Reduce *ll final*, after a short strest vowel, to **l**, as **bil, dol, dril, dwel, fil, ful, fulfil, shal, tel, wil, wilful** etc.

9 Reduce *dubl final* consonants *bb, dd, ff, gg, nn, rr, tt, zz*, to a singl consonant, as **eb, ad, od, cuf, eg, bun, bur, whir, net, buz** etc.

10 Drop *-me* from *mme final*, as **gram, program**

11 Drop *-te* from *ette final*, as **cigaret, coquet, etiquet, omelet, quartet**

12 Drop *silent ue final* after **g**, as **catalog, colleag, dialog, pedagog, sinagog** etc.; except when **g** is preceded by a singl long vowel, as in **rogue, vague, vogue** etc. *Tongue* spel **tung**, Milton's way

13 For *-ough* substitute **o, u, of, ock, out** or **up**, according to sound, as **tho, thru, cof, enuf, hock, drout, hiccup** etc. *Plough* spel **plow**

14 Drop *silent b final*, as **crum, lam, lim, num, thum** etc.; except where omission sugjests incorrect pronunciation, as in **tomb, comb** etc.

15 Drop *e* from *ey final* unstrest, pronounst like short **y** final, as **abby, barly, chimny, donky, gally, trolly, vally, whisky** etc.

16 Substitute **z** for *s* in *-ise final*, pronounst as if speld **ize**, as **advertize, civilize, criticize, merchandize, rize, wize** etc.

17 Chanje *re final* after any consonant except **c**, to **-er**, as **center, fiber, meter, theater** etc.; but **lucre, mediocre**, not *lucer, mediocer*

18 Drop *u* from *our final* in words of 2 or more silabls, as **ardor, color, favor, honor, labor** etc.

Aded rules uzed in Decimal Clasification[1]

Supplementing S S B's short list of most needed chanjes we hav selected from its longer preliminary list and from the other best authorities a few more chanjes which we uze in order to familiarize readers with shortr forms sure to be uzed later.

[1] See note on spelling of Ed 14 on back of title-page

Besides chanjes in S S B rules we uzualy:

Spel **cud, wud** and **shud** for these constantly occurring words

Uze silabic **l, m, n** and **r** without the unpronounst vowel; e.g. *single* is not *singlee* or *singul* but **singl**, just as **prism** and **enthusiasm** ar not *prisum* and *enthusiasum*. Also omit preceding *obscure* vowel before silabic **l, m, n, r**. These 4 consonants partake of the nature of a vowel and so form silabls; **little** was pronounst **litel**, then **litul**, then **litəl**, and now simply **litl**. Many words ar going thru this same shortning. We hav no letr for this lo unstrest vowel which most peopl ignore. The *Standard dictionary* says it is 'reduced to a slyt vocalic resonance'. As the present vowel is misleading and we hav no letr for this very obscure sound it is betr to omit it and thus shortn the word. Peopl ar les likely to mispronounce this short form than the uzual speling; e.g. *pedal, metal, gambol*, ar not pronounst as speld, but more and more exactly like *peddle, mettle, gamble*, which ar correctly speld **pedl, metl, gambl.** For indicating minute shades of pronunciation in a dictionary our short speling wud not be enuf but it is ampl for all ordinary use

Uze **u** for *o* or *ou* pronounst as in **us**; e.g. **obvius, famus, cuntry, cum, handsum**

Uze **j** for *dg, dge* or *g*, pronounst **j** e.g **jujment, rij, jem** (except in propr nouns and adjectivs, and in old D·C entries and for initial in Index)

Uze **y** with its very common sound in **by, my, reply** etc. for *eigh, igh, ei, ie, ui* and *uy*; e.g. for *height, might, pleistocene, replied, guide, buy*, we spel **hyt, myt, plystocene, replyd, gyd, by**

We often leav **i—e**, as in **bite, ride** etc. til later

Uze **k** for *ck* or *ch, medial or final*, if pronounst **k**; e.g. **bak, stok, skool, mekanic, epok, monark**

For the present we often leav **initial c**, as in **caracter**

Drop **w** from *ow final* pronounst **o**; e.g. **blo, flo. sho** etc., but retain in inflected forms, e.g **blows blown, blowing**

Drop any **silent** letr that is foneticly useless; e.g. drop **c** from **fascinate**

Drop 1 of **dubl letrs** that serv no use; e.g. **clas, curiculum, paralel,** but retain if short form wud mislead, as in **hiss, off**

Sumtimes we substitute **s** for *ce*, when it wil not sugjest wrong pronunciation, e. g. **offis, servis, prejudis,** but not *fens* for **fence**; also we sumtimes substitute **z** for *s* or *se*, as in **becauz, eazy, uzual,** but not in inflections, as in **rubs digs, egs** (**s** pronounst **z** is left in inflections becauz there ar so many, and chiefly becauz the *vocal organs force the* **z** *sound after voist consonants* **b, d, g, m, ng, v** as in **rubs, pads, digs, egs, hums, bangs, givs,** etc. *Trying* to pronounce *s* results in *rups, pats, diks, eks, humps, banks, gifs* etc.)

We leav many bad spelings where corrections as in similar words myt lead careless readers into mispronunciation; e.g. we omit **c**, a silly duplication of **k**, in **bak**, but leav **it** in **backer** becauz *baker* wud confuze with the bred man With only 23 letrs for 40 sounds we must make *only more obvius* needed chanjes and leav many inconsistencies til we hav the needed new letrs or modifyd forms to represent the other 17

U S Jeografic Board rules

Most chanjes made harmonize with rules uniformly uzed by U S Jeografic Board (and strongly recommended for jeneral adoption) in officialy fixing propr spelings of jeografic names. Sum of these rules applyd to other words ar:

Pronounce vowels as in Italian and other continental European languajes, consonants as in English

C always **soft** (sounded **s**). Always uze **k** for **hard c**; e.g. **Korea, Dakota**; never *Corea, Dacotah*

We leav **initial c**, at present, in **cat, corus, cronolojy** etc., also **final c** in **grafic** etc.

G is always **hard.** Uze **j**, never *dj*, for **soft g** (**j** sound)

Ch always as in **church**; never use for *k* sound, e.g. spel **arkitect, caracter, corus, skool**

We keep **chemic** temporarily; **kemic** cums later

Never uze *ph* for **f** sound

Always pronounce **h** when uzed; e.g. **humor,** not *yumor*

Never uze *y* for vowel **i** when it has its propr sound as in other languajes (as in **pin, pique**); e.g. **limf, linch, simbol,** not *lymph, lynch, symbol*

Ei, with both short vowels pronounst respectivly as in **met** and **pin,** sound like **ey** in **they** and **prey,** or **a** in **fate**

Omitting useless *gh* in **sleig*h*, weig*h*, freig*h*t** etc. leavs betr spelings

Filolojists 10 joint rules

These wer made by American and English filolojic associations, including nearly all eminent skolars in English, after several years study by committees of their leading members. British and Americans jointly recommended these 10 rules as in the interests of real skolarship as wel as common sense:

1 **e** Drop *silent e* when foneticly useless, writing **er** for *re*; as in **liv*e*** (verb), **singl*e*, eat*e*n, rain*e*d,** *theatre* (**theater**)

2 **ea** Drop *a* from *ea* having sound of **e** as in **met**; e.g. **f*ea*ther, l*ea*ther**

3 **o** For *o* having sound of **u** in **but,** write **u** in *above* (**abuv**), *tongue* (**tung**) and the like

4 **ou** Drop *o* from *ou* having sound of **u** in **but,** in *trouble* (**trubl**), *rough* (**ruf**) and the like. For *our* unaccented, as in *honour*, write **or,** e.g. **honor**

5 **u, ue** Drop *silent u* after **g** before **a,** and in nativ English words, and drop *final ue;* **g*u*ard,** *guess* (**ges**), **catalog*ue*, leag*ue*** etc.

[Do not drop **ue** when pronounst, as in **argue, value,** nor when preceded by a singl long vowel, as in **rogue, vague**]

6 **Dubl consonants** may be simplifyd when foneticly useless; e.g. **bailif*f*** (but *not* **hal*l*** etc.), *battle* (**batl**), *written* (**writn**), **travel*l*er**

7 Chanje *d* and *ed final* to **t** when so pronounst, as in *looked* (**lookt**) etc. unless the **e** affects the preceding sound, as in **chafed** etc.

8 **gh, ph** Chanje *gh* and *ph* to **f** when so sounded; e.g. *enough* (**enuf**), *laughter* (**lafter**) etc.; *phonetic* (**fonetic**) etc.

9 **s** Chanje *s* to **z** when so sounded, specialy in distinctiv words and in *-ise;* e.g. **abuse** (noun), **abuze** (verb), *advertise* (**advertize**)

10 **t** Drop *t* in *tch*; e.g. **ca*t*ch, pi*t*ch** etc.

Comments

Rule 1 givs us **l, m, n** and **r** as silabls without the useless *e* which no authority pronounces as writn; e.g. **singl, eatn**

Rules 3 and 4 giv us **u** for *o* and *ou* pronounst like **u** in **us**; e.g. **cum, handsum, obvius, perilus**

Rules 3, 4, 9 and 10, while not in S S B short list, ar fully approved. It was merely choice of *which* chanjes to make 1st with those who havn't the curaj to make all at once. When all leading skolars of the English world, including editors of all great dictionaries, recommend shortr forms, why shud we continue to write the worse than useless letrs? Every child and forener who has lernd **rave, wave, dive, alive** etc. is sure to pronounce **hav*e*, giv*e*** and **liv*e*** (verb) wrong unless we omit the useless *e*.

Sugjestions

We shud be glad to hav any practical sugjestions, but to save time and gard agenst elaborate presentation of varius fine spun theories, we ad that we hav wacht for many years the results of elaborate and wonderfuly delicate experiments in our best sykolojic laboratories. We hav red carefuly all the 'arguments' that sum wil deduce for retaining certain uscless letrs. But these refinements, while very interesting to the specialist, hav no practical bearing whatever on languaj as the greatest tool with which man works. Its function is to convey meaning clearly, as quikly and cheaply as posibl. Microscopic verbal milinery has no propr place in this vast enjin. When one tels us that he has proved that *o* is uzualy pronounst with a slyt vanish which cud be represented by *w* we admire his observant analisis, but when he wishes to argue that we shud therefore ad *w* to *go* we hav no time for his vagaries. To attach sum mark to sho every refinement which modern reserch cud establish wud result in sumthing quite too complex for daily use. Melville Bell's visibl speech was a marvelus invention but only an unbalanst mind wud advocate its use for infinit demands of daily life.

By evolution, not revolution, we shal stedily move toward the ideal, when the greatest languaj the world has yet seen wil hav 40 distinct syns for its 40 distinct sounds, and becauz of its manifold advantajes wil becum the common tung of the world, known in adition to his vernacular by every intelijent inhabitant.

LAKE PLACID CLUB N Y — MELVIL DEWEY

Dec. 10, 1926

INDEX TO INTRODUCTION AND SIMPLER SPELING

Superior figures indicate the part of paje in ninths; 1, 5 and 9 indicating top, middle and foot: 27^3 means ½ way between top and middle of p. 27

D C means *Decimal clasification*
C D " *Classification décimale*, the enlarjd French translation of D C
I I B " Institut International de Bibliographie
L C " Library of Congress
N E A " National Education Association
S S B " Simplifyd Speling Board (American)
S S S " Simplifyd Speling Society (English)

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1 Filosofy

2 Religion

3 Social sciences

4 Filology

5 Pure science

6 Useful arts

7 Fine arts

8 Literature

9 History

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- 020 Library economy
- 030 General cyclopedias
- 040 General collected essays
- 050 General periodicals
- 060 General societies Museums
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772 Processes: silver etc
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775 Fotolithografy etc
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including all the

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007 Activity and organization in general

010 Bibliografy

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011 General bibliografies Universal catalogs

011 is by **Authors.** If by **Subjects** they go in 016. See also 028.5 Reading of children

Properly a catalog is of a special collection and so tells where the works may be found. A bibliografy disregards actual location and tells what there is, but its contents can seldom be found in any one library

012–016 include both bibliografies and catalogs. 017–019 is limited to catalogs of general collections

012 Of individuals

Alfabeted by subjects of bibliografies (bibliografees), not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

A bibliografy of an individual may include either works about or by the individual, or both

Authors on whom special collections are being made (e. g. in 800) attract their bibliografies to same number, leaving only a reference here. Other individual bibliografies class here, unless clearly limited to some subject; e. g. artists or musicians, bibliografy of Wagner 016.782

013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliografy of a special class of authors may be put with that class; e.g. bibliografy of women's writings 396.58, tho 013.396 would be the better number in a general library

.020622 Writings of members of A L A

.064 " " " " French academy

.282 " " Roman catholics

.378744 " " Harvard graduates

.9 Writings of foren residents in a special country

Often extended to one or more generations of descendants. This provides for bibliografies in which nationality, not subject, is the important idea

.91 Authors from special country

Divided like 930–999 by country of origin and farther subdivided with o like 930–999 by country of adoption; e.g. 013.91485 bibliografy of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother* country; e.g. gathers together all lists of works by emigrant Swedes

.930–.999 Foren authors in special country

Usually preferable to .91. Divided like 930–999 by country of adoption and farther subdivided with o like 930–999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S; 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted* country; e.g. gathers under a given country all its foren authors

014 Of special forms: anonyms, pseudonyms, etc.

.1 American .2 English .3 German, etc. like 030

015 Of special countries

Books publisht in the country. Publishers lists, current publications. Subdivided by countries like 940–999; e. g. 015.42, Bibliografy of books publisht in England, e. Lowndes or English catalog

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliografy, and goes usually in 015, tho the literary history of some special class is 013

016 Of special subjects

Subdivided like the main classification, from 000–999; e. g. 016.01 Bibliografy of bibliografies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

See also next note

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heding wherever it conflicts with another. 017–019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017–019, 4 means catalogs of books for sale, not publisht, by booksellers. For *publishers* catalogs see 015

017 Clast catalogs: systematic or logical

.1 Public .2 Private .3 Auction .4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alfabetic subject catalogs, see 019. See 016 for Bibliografies

018 Author catalogs See 011 for Bibliografies

.1 Public .2 Private .3 Auction .4 Booksellers

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

019 Dictionary catalogs Alfabeticoclast, etc.

.1 Public .2 Private .3 Auction .4 Booksellers

020 Library economy

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- 026 Libraries on special subjects
- 027 General libraries

028–029 Allied subjects

- 028 Reading and aids
- 029 Literary methods

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- 090 Book rarities

020.1 Theory

.14 Library terms, definitions, etc. Discussion. For dictionaries, glossaries, etc. see 020.3

.2 Compends .3 Dictionaries .4 Essays .5 Periodicals

020.6 **Societies, associations, clubs, conferences**
.61 Official institutions; government departments
For library commissions see 021.82
.62 Societies not under government control
.621 International associations
.622 National "
.623 State "
.624 Local clubs
.625 Associations of special groups
State librarians, or class in 027.506
Medical " " " " 026.6106
Sunday school " " " 027.831
Library dep't of N E A or class with subject in 021.3
.626 Mutual benefit associations
Or class in 023.59, if preferd
.627 Library association publishing boards
For children's library leagues see 027.6251
.63 Congresses, conferences, meetings, temporary organizations
.65 Commercial establishments Library Bureau
For commercial circulars see 020.85
.7 **Education Training Library schools**
.71 Instruction, schools
Standards, location, cost, etc
.711 Library schools
Use letter for each school, and if desired divide like 378 A–Z
.712 Summer schools
.713 Apprentis classes Training classes
.714 Correspondence schools
.715 Library institutes
Similar to teachers institutes; local meetings with a conductor, for discussion of practical problems
.716 Courses in colleges and universities
.717 Courses in normal and high schools
.718
.719 Private schools and instruction
.72 Research work
.73
.74 Museums, exhibits
Collections of illustrativ appliances, blanks, eco.
.75
.76
.77 Special pedagogic methods
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.79 Competitions, prizes, traveling scholarships
.8 **Polygrafy**
.81 Individual polygrafy
.82 Collectiv "
.822 Extracts, maxims, anthologies
.83 Recipes
.84
.85 Commercial circulars
See also 020.65 Commercial establishments
.86
.87
.88 Curiosa, anecdotes, library humor, dummy book titles
.9 **History of library economy**
For history of libraries both public and private see 027
Lives of librarians are clast in 920.2. To keep them with the subject use 020.92, and for fotografs of librarians 020.921. Collected lives may be separated from individual by use of the Olin booknumbers (following Index)

021 Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development

.01 Arguments for libraries: purpose, benefits
Impressivness of libraries. Discussion of free public libraries is better clast here than in 027.4
.02 Arguments against libraries: evils of libraries
For paternalism in library see 021.201
.03 Progress and future of libraries
Reforms, improvements, projects, plans, profesies, library ideals
.04 Ideals for special communities
e.g. what a library can do for a manufacturing community
.1 **Library as a storehouse**
.16 Character of material appropriate to library
.2 **Library as an educator; people's university**
Material on private reading is better in 028 than in 021.2
While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, ar best clast with libraries for special classes in 027.6, or when a special subject predominates, in 026
.201 Paternalism in library
See also 024.58 Library censorship of news, 024.674 Restriction of immoral books, 025.217 Exclusion of immoral or il made books
.25 Library as a publisher
.26 " bookseller
.28 Work for special classes of users
Physicians, lawyers, clergymen, women, foreners, etc. See also 021.3
.3 **Library in relation to schools and other institutions**
This is mainly for relations of general public libraries to school work. Class a library owned by and kept at the school in 027.82. School libraries, 371.622, is only to keep all school material together under 370. Class general work for children with children's libraries in 027.625.
.31 Relations to teachers
.32 " pupils
Librarian's talks to pupils, either at schoolhouses or at library, on use of library
.33 Special libraries for schools
Specially selected from general library and lent to school either for class or general school use. Duplicates for schools
.34
37 Work of individual libraries with schools
Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout
.38 Relations to special institutions
May be divided like the whole classification, e.g. 021.38069 Library work with museums

021.4 Home education
This includes all servises or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1-.9

.41 Study clubs Reading circles, etc.
.42 Conferences, conventions, institutes, etc.
.43 Lectures
For extension courses, see 021.44
.44 Extension courses Lecture study
.45 Entertainments: dramatic, musical, etc.
.46 Museums and temporary exhibits
.47 Science museums or collections
.48 Art galleries " "

.5 Library as a recreation
Serving refreshments; e. g. tea

.6 Library extension and cooperation
For work done by the state see 021.8

.61 Deliveries
See also 025.6 and 022.16
.62 Branches
See also 022.15
.63 Centralization Grouping of libraries
.64 Cooperation between libraries
Cooperation in any special department is clast with the department; e.g. interlibrary lending 025.6
.65 Traveling libraries
A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization. Book wagon
.66 House libraries
A small traveling library for use of a person or household. Originated at New York state library for isolated students
.67 Home libraries
Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society

.7 Founding Developing and maintaining interest
This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who ar alredy readers see 025.5 and 025.6

.71 Personal canvass, visits and correspondence
.72 Circulars
.73 Advertizing
In newspapers, posters, street cars, etc.
.74 Press Publicity
Discussion of use of newspaper colums (editorials, articles, letters, new book lists, etc.) to secure interest
.75 Schools and teachers
.76 Churches and ministers Pulpit
.77 Literary and other organizations and institutions
.78 Lectures Public meetings and addresses
.79 Library propaganda
Societies, local or general, for encouragement and stimulation

021.8 Libraries and the state Library legislation
.81 State supervision
.82 Library departments or commissions
Special work done by commissions is clast by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4 If important to keep all work of commissions together, class their reports here
.83 Government aid
.831 State grants of money
.832 Local subsidies
.84 Gifts of books
.841 Public documents, etc.
.842 Copyright books
.85 Exchanges
See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority
.851 Local
.852 Foren
Vattemare international exchanges, Smithsonian exchanges
.86 Privileges
.861 Remitted duties Free importation
.862 Free postage Franking privilege
.863 Lower rates or special facilities Cheap library post
.87
.88 State or local hindrances Politics
.89 Library legislation
General; laws for a special subject ar clast with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8
.891 National legislation
.892 State "
.893 Local legislation (county, city or village)
.894-.899 Legislation in special countries or places
Divided like 940-999

.9 Support, raising funds, etc.
For state aid separate from local help see 021.8

.91 Taxes Appropriations Subsidies
.92 Endowment
.93 Gifts of money or books
See also 021.84 Government gifts
.94 Bequests
.95 Subscriptions
.96 Lectures Fairs Entertainments, etc.
For raising money. For educational purposes see 021.43-.45
.97 Membership fees

022 Library bildings
See also 727.8 Architecture. For care of bilding see 025.9

.1 **Location, site, etc.**

.11 Location with reference to field of work
Accessibility to population servd, to other libraries, educational institutions, etc.

.12 Site
With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth New bildings

.14

.15 Branches

.16 Delivery stations

.17 Newsrooms, reading rooms, etc.

.2 **Material, protection**

.21 Material: wood, brick, stone, steel, glass, etc.
Relativ fitness for library bildings. See also 620.11 Strength of materials; 691 Bilding materials

.22

.23

.24 Fireproof construction

.25 Protection against fires
Location and relativ efficiency of apparatus: hose, extinguishers, chemic engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection

.26 Library fires, burning of libraries

.27 Insurance

.28

.29 Other dangers
Flood, earthquake, cyclone, war, etc.

.3 **Design Plans Construction**
Alfabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31–.33 only for indexing

.31 By kind of library
Divided like 027. Group plans for public libraries, 022.314, in 3 subsections
022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelv them in their alfabetic place under 022.3
.3142 Libraries from 20,000–100,000, medium
.3143 Libraries over 100,000, large

.32 By subject
Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be redily referd to in 022.3, or in journals or reports clast elsewhere

.33 By country
Divide like 930–999 and use like 022.31–.32 only for reference

.34 Design and decoration
Divided like 729 as follows:

.341 Elevation, style
Only for general discussion; class elevation of a special library under 022.3

.342 Plan
Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341

022.343 Artistic forms

.344 Painted decoration, etc.

.348 Staind glass

.349 Accessories and fixt furniture
Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. ar 022.9

.35 Construction
Divided like 721. Class here only discussions limited to library bildings

.36

.37 Library rooms as part of other bilding

.38

.39 Remodeling old bilding
Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions

.4 **Storage and shelving**
For furnishing of private libraries see 645.63

.41 Storage
Capacity per square meter of floor, or running meter of cases; allowance for growth

.42 Shelving round sides of room

.421 Wall cases

.422 Alcoves

.423 Galleries

.43 Stacks

.431 Stack rooms
Dimensions, maximum width with natural light only. Number of rooms, one or several. Number of floors

.432 Arrangement of cases
Parallel, radial; light; open access, supervision

.433 Movable cases

.434 Ailes
Position, width

.435 Flooring of stack rooms
Solid, glass, open grating

.438 **Maximum floor load**

.44 Cases, tiers

.441 Material: wood, metal, glass

.442 Dimensions of case and tier, hight, length
See also 022.452 Dimensions of shelf

.443 Plan of cases
Open or closed ends and backs; 1 or 2 ledges

.444 Fixt or movable shelvs

.445 Quarto and folio shelving

.45 Shelvs

.451 Material
Wood, metal, glass, stone, sheet iron, skeleton steel

.452 Dimensions: length, depth, thickness; standard shelf

.453 Surface finish or covering
Paint, varnish, cloth or lether covering

.454 Shelf supports: pins, brackets

022.46 Cases and shelvs for large books, lying flat
Dimensions, sliding or roller shelvs, etc.
.47 Closed cases Doors: glass, screen or wood
.48 Special cases
.481 Hanging presses
.482 New-book cases
.483
.484
.485 Cases for maps, engravings, etc.
.486 Cases for fotografs
.487 Cases for lantern slides
.5 Reading rooms
See also 022.63 Rooms for special material
.51 General reading room Central hall
.52 Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.65
.53 Reference room
.54 Standard library
.56
.57 Women's room
.58 Children's room
.6 Administration and special rooms
.61 Rooms for trustees or outside organizations
.611 For trustees
.612 " committees, commission, school board
.613
.614 For local societies
.62 Administration rooms
Divided like 025
.63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
.64 Special collections: patents, local history, etc.
.65 Instruction rooms, etc.
.651 Lecture room or hall, theater, concert
.653 Seminar room, class room
.655 Museum
.656 Art gallery
.657 Exhibition room
.658 Fotografic and dark room
.659 Piano and music room

022.66 Recreation rooms
.661 Conversation room
.662 Chess room
.663 Other games
.664 Billiards
.665 Bowling
.666 Gymnasium
.67
.68 Other rooms Lavatories, etc.
For helth, comfort or convenience
.681 Entrance halls and corridors
.682 Waiting room
.683 Telefone booth or room
.684 Lunch room
.685 Coat room
.686 Toilet room, lavatories, etc.
.687 Garage, bicycle room, etc.
.69 Residence quarters
.691 Librarian
.695 Janitor
.7 Lighting
.71 Natural lighting; windows
For architectural side see 022.358; for staind glass see 022.348
Position of windows; size and number; shape. Provision for opening; sliding, hinged or pivot sash, French casement
.72 Skylights
.73 Prisms
.74
.75 Artificial lights: materials
.751 Lamps, oil, etc.
.752 Gas
.753 Acetylene
.754 Electricity
.76 Fixtures
.762 Portable or semiportable lights
.763 Table lights
.764 Standards
.765 Bracket lamps
.766 Chandeliers
.77 Lighting of stacks by electricity
Fixt or movable lights
.8 Heating and ventilation
General hygiene of library. Divided like 697

022.9 Fixtures, furniture, fittings
.91 General furniture
.911 Chairs
.912 Tables
.913 Desks
.914 Revolving cases
.915 Bases
.916 Vertical files
See also 651.236 Offis equipment
.918 Counters
.92 Public convenienccs
.921 Hatracks
.922 Umbrella stands
.923 Clocks
.924 Bulletin boards
.93 Furniture for exhibiting or using books, pictures, etc.
.931 Exhibition cases, fixt or movable
.932 Wing frames
.933 Easels
.934 Reference book holders
.935 Magazine and newspaper racks, files, etc.
.94 Appliances for getting or carrying books or messages
.941 Ladders, stepladders
.942 Book trucks
.943 Carrying trays
.944 Mechanical carriers
See also 621.867 Conveyers, Telferage
.945 Book lifts
.946 Pneumatic tubes
.947 Speaking tubes
.948 Interdepartment telefones
See also 621.3853 Intercommunicating telefones
.95 Elevators
For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945
.96 Floor coverings
For permanent flooring see 022.256
.961 Linoleum, corticine
.962 Matting
.963 Carpets
.964 Rugs
.965 Door mats: rubber, wire, etc.
.97
.98
.99 Desk fittings, etc.
Divided like 651.465

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board
Charters. Local ordinances, etc.

.2 Appointment and tenure of offisers under governing board
State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser

.3 Governing board
Trustees, committees, directors, regents, etc.
.31 Method of selection
Election, appoint ıent, exofficio trustees, close corporation, i.e. selfperpetuating body
.32 Number
.33 Qualifications
.34 Women as trustees
.35 Powers and duties
.36 Financial administration
.37
.38 Time and place of meetings

.4 Executiv Consulting librarian Library expert
For appointment see 023.2. See also 023.5–.9, which apply to executiv as well as to staf
.43 Responsibilities and privileges

.5 Staf
Including all subordinate positions. For method of appointment see 023.2
.51 Qualifications
.52 Personality Character Moral and social equipment
.53 Mental equipment Natural ability
.531 General education
532 Professional education Training
See also 020.7 Library schools
.535 Reading of librarians
.54 Physical equipment Helth Exercise
.55 Staf meetings Relations to hed
.56 Women as librarians
Including difference in salaries of men and women
.57 Worries and trials
.58 Longevity
.59 Library benefit associations
See also 020.626

023.6 Daily hours Holidays and vacations
.61 Daily hours
.611 Records Record clock
.612 Punctuality Tardiness
.62 Hours for meals Lunch room
See also 022.6 Special rooms
.63 Special work
.631 Evening
.632 Sunday
.633 Holiday
.64 Work by hour Overtime, extra hours
.641 Making up lost time
.642 Payment for overtime
.643 Effect of overstrain on employees
.644 " " on servis
.65 Holidays
.651 Weekly half holiday
.652 Legal holidays
.66 Vacations
.661 Time of year
.662 Length
.663 Continuous or in instalments
.664 Sabbatic year
.67 Absences for sickness or other causes
See also 023.641 Making up lost time
.68 Attendance at meetings
.681 International
.682 National
.683 State
.684 Local
.7 Titles and duties
.701 Specialization Monotony Change of work
.702 Understudies
.71 Executiv Director
Chief or principal librarian, keeper, etc.
.72 Department, division or section heds
Librarians, sublibrarians, chiefs, heds
.73 Reference staf or faculty
Librarians of special subjects
74 Assistants Catalogers

023.75 Pupil assistants, apprentises, volunteers
Paid mainly by instruction
.76 Clerical servis
.761 Stenografers
.762 Typewriters
.763 Clerks
.77 Mechanic servis
.771 Binders
.772 Electricians
.773 Carpenters
.774 Other mechanics
.78 Pages, messengers, ushers, runners
.79 Janitor servis
.791 Janitor
.792 Watchman
.793 Elevatormen
.794 Attendants, in coat room, etc.
.795 Porters and packers
.796 Cleaners, etc.
.8 Remuneration: salaries, pensions
Divided like 023.7. See 023.56 for difference between salarles of men and women
.9 Rules for staf Codes
Made by trustees or librarian
For punctuality see 023.612. For absences or sick leave see 023.67
.91 Conversation
.92 Personal calls or work
.93 Soliciting money, subscriptions, contributions
.94 Respect and care for library property
.95 Uniforms
.96 Curtesy Indifference
See also 174 Business ethics; 177.1 Curtesy (social ethics)

024 Rules for readers
For reference and circulating departments
.1 Readers qualifications
.11 Age
.12 Residence
.13 Relations to community
Membership in society, club or institution; official position; profession, etc.
.14 Responsibility
Reference, guarantor, money deposit
.15 Registration
.16 " for limited period

024.2 Fees Assessments Free use

.21 Membership fees
Mercantil libraries, atheneums

.22 Book fees
Circulating library fees. For fines see 024.6

.23 Fees for readers card. etc.
For petty expenses to gard against wastefulness

.24

.25 Extra library fees; e. g. college library

.26 Public library fee
For subscription departments see 024.78

.27

.28 Free use

.3 Hours of opening

.31 Number of hours

.32 Time of day: morning, afternoon

.33 Evening opening

.34 All night "

.35 Intermission for meals
Closing library during lunch, dinner or supper hours

.36 Hours for reference and circulating departments

.37 Cooperation of local libraries
Agreement on hours so that some library shal always be open

.4 Days of opening or closing

.41 Sunday

.42 Special religious days

.43 Holidays

.44 Vacation, summer

.45 Inventory Examination
Closing for annual examination of library

.46 Special occasions
Closing for recataloging or rearrangement; public calamity, deths

.47 Closing for epidemics

.5 Reference use

.51 Reading room rules

.52 Decorum in library
Unwelcome visitors; library cranks

.53 Ladies in reading room
For women's separate reading room see 022.57

.54 Access to catalogs
For access to librarian see 023.43

.55 Open reference shelvs

.56 Open shelvs in general

.57 Restricted or selected access to shelvs
Restriction as to persons or subjects

58 Library censorship of news
Obliteration or suppression, in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime. criminal trials. See also 021 201 Paternalism

024.6 Home use Loans

.61 Number of books

.611 Two book system

.612 Summer vacation cards

.62 Time: 7-day books, new periodicals

.63 Delinquencies Fines
For injuries, etc. see 024.8

.64 Renewals
Extension of loans by library

.65 Relending
Lending by borrowers

.66 Reservations

.67 Restricted books

.671 Reference

.672 Rare or costly

.673 Medical

.674 Of immoral tendency Library inferno
See also 021.201 Paternalism

.68 Interlibrary loans

.681 International loans

.7 Special privileges

.71 Extra books Teachers cards

.72 Extra time

.73 Remission of fines Excuses

.74 Favord classes: trustees, faculty, staf

.77 Lending restricted books

.78 Subscription department
Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries

.8 Injuries Abuses

.81 Defacements
Marks; corrections, notes and comments

.82 Mutilation

.83 Removal of plates, maps, etc.

.84 Mutilating newspapers

.85 Losses by readers; payment

.86 Thefts

.87 Restitutions

.88

.89 Prevention of abuse
Methods of preventing injury and inducing better care of books. For children's library leag see 027.6251

.9 Other rules

025 Administration Departments

SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Care of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, ar closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to giv proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision .2 Acquisition .3–.6 Utilization .7–.9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

.1 Executiv General supervision

.11 Finances
See also 023.36 Financial administration of governing board

.111 Invested funds, endowments, gifts
See also 021.9 Support

.112 Appropriations: local or state
See also 021.8 Libraries and the state

.113 Other money receivd
Fees, assessments, fines, payments for special servises and investigations, etc.

.114 Accounts: receits and expenses, bookkeeping

.115 Salary payments Staf payrolls
See also 023.8 Salaries

.116 Expenses: fittings, supplies and incidentals
Class with a department supplies peculiar to it, their kind, quality, cost, etc.; e.g. catalog cards with 025.3. For bookbuying see 025.2

.117

.118 Cost of preparing books for shelvs

.12 Printing and publications
Both preparation of material and details of printing, including size, stvle, type, etc.

121 Blanks and forms, stationery
If relating to a special department class with it; e.g. bookplates in 025.2

.122 Publications

.123 Reports and statistics
See also 027

.124 Catalogs
See also 017–019. For cataloging see 025.3

.125 Bulletins
Frequency, advertisements, etc. See also 017–019. For preparation of book lists see 025.3; for newspaper publication of new book lists, see 021.74

.126 Library magazine or paper

.127

.128

.129 Duplicating by neostyle, carbon, etc.
For machines and processes see 652. Class here discussion of fitness for library applications only

025.15 Correspondence

.151 Stationery
Material, weight, size and headings

.152 Stenografers, dictation machines

.153 Typewriters

.154 Copiers
Roller, press, carbons, portable. See also 025.129

.156 Letter files
See 651.5 for methods

.17 Treatment of special material
For general discussions of arrangement, care and use. Class special work under each department: e.g. cataloging of incunabula in 025.3

.171 Manuscripts, archives and rarities
Divided like 090

.172 Pamflets

.173 Serials, documents, etc.

1 **Periodicals, magazines, etc.**

2 **Newspapers**

3 **Annual reports**

4 **Documents; national, state and local**

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material
Engravings, fotografs, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries
Alfabet by name of library. For administration of special kinds of libraries, see 026 and 027

025.2 Accession Acquisition

SUMMARY

025.21 The library and its selection
.22 Methods of acquisition
.23 Ordering and receiving
.24 Accessioning
.25 Marks of ownership
.26 Duplicate and exchange department
.29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects
Division of funds; endowments for special subjects; accession statistics

.212 **Specialization by libraries**
Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science, etc. see 026

.213

.214 Who? Selectors of books
Trustees or trustee committee; librarian; staf committee, book board; advisory committee from outside; experts; central body (bibliografic bureau, state commission, etc.)

.215 How? Methods of selection
Recommendations by readers; personal examination; visits to book stores; books sent on approval; printed reviews; first selection for new library. Want lists, books under consideration
For lists of best books, A L A catalog, annual lists, etc. see 016
For principles of selection and choice of editions see 028.2
For selection for special classes see 027.6, 027.8, 028.5

.216 Buying fiction
Duplicating popular fiction; extra copies of best fiction

.217 Rejection, exclusion, censorship
Pernicious literature; badly made books; yellow journals. See also 021.201 Paternalism

.218 Weeding out, sifting
Separating books no longer of servis to library. For withdrawal book see 025.249

.22 Methods of acquisition

.221 Buying new books
Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29

.222 Prices Discounts
Net books. For free importation, see 021.861

.223 Buying old books
Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.224 Auctions
For auction catalogs see 017–019

.225 Buying libraries in block

.226 Exchange

.227 Gifts
Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
For government documents and copyright books see 021.84
See 025.268 for gifts from library to library

025.23 Ordering and receiving
For gifts, see 025.227; for exchanges, see 025.266

.231 Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers

.232 Examination for duplicates and verification
Misspeld names; changed titles; separates

.233 Reception and opening
Express, mail, etc; frequency of shipments; free delivery

.234 Checking bills
Prices and amounts

.235 Collation

.236 Receit index

.24 Accession book

.241 Importance of record
Accession book vs shelflist, etc.

.242 Printed headings Items Fulness of entries

.243 Accession number: volume, work or invoice

.244 Accession stamp

.249 Withdrawal book

.25 Ownership marks

.251 Private marks

.252 Stamping
Ink, embossing, or perforating stamp. Table and foot power

.253 Book plates Plating
See also 097

.254 Library name on outside of book
Gilding or impressing name of library on back or covers

.255 Card pockets

.26 Duplicate and exchange departments

.261 Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.

.262 Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand

.263 Cataloging

.264 Arrangement

.265 Sale for cash

.266 Exchange
General exchange of publications; exchange accounts

.267 Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges

.268 Gifts to other libraries

.269 Deposits
By large libraries in small or in hospitals, prisons, etc. also deposits in great collections by individuals or small libraries. See also 025.218

.29 Special material
Divided like 025.17

025.3 Catalog

For printed catalogs themselvs, see 017–019. This is for *cataloging*
Printed, manuscript, or card; Author, subject, title, clast; Dictionary or combined; Cooperativ rules; Size notation; Cooperativ cataloging; Duplicated titles, print or photografy; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels

.4 Classification

For philosofic classification of knowledge, see 112 Methodology. This is for practical classing of books, pamflets, and notes, rather than theoretic speculation
On shelvs; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division; Coordination of special subjects

.5 Reference Reference books Aids to readers

See 028 tor general discussion of reading and aids. This is limited to library administration

.6 Loan

See 024 for rules for readers
indicators; Charging systems, legers vs cards; Book cards, marks, pockets; Call slips, readers cards; Notises, reservs; Registers; Interlibrary loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 Binding and repair

See also 686 Bookbinding
Materials, durability, tight vs spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling

.8 Shelf

See also 022.4. Shelving
Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ locations; Sizes of shelvs; Arrangement and preservation of public documents, pamflets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Chaind books; Injuries, heat, gas, insects; Stock taking; Shelf lists

.9 Bilding: care, cleaning, safety Janitor Police

See 022 for bilding and fittings. This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars and every thing about the library not more required in preceding sections. Sub divided by adding clas number of subject; e. g. a Medical library is 026.61; a Ches library, 026.7941; but the *catalog* of a ches library is 016.7941. Blanks etc from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates ar also desirable under the library in 026–7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects
Clas here histories, reports, statistics, bulletins, handbooks, circulars and everything about the library not more required in preceding sections
Subdivided if wisht (except 027.6 and 027.8) by countries, like 930–999; e. g. 027.744 College libraries in France. Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city
A private library is still clast 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

.1 Private and family

.2 Proprietary, society, club and Atheneum

.2 is limited to libraries that ar semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantil library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

.3 Subscription Circulating

Mudie's, Booklovers, etc.

027.4 **Free public Rate supported Endowd**
Public library commissions. See also 331.85 Libraries in intellectual life of laboring classes, and 027, last note

.42 Special kinds of public libraries

.422 According to area servd
For national and state libraries see 027.5; see also 021.6 Library extension, 021.65 Traveling libraries

2 **Urban, city**

3 **Rural, country**
Include here general discussions of village libraries

4 **County**

5 **Township**
New England 'town' libraries

6 **District School district**
See also 027.8 School libraries

.423 According to means of support
See also 021.9 Library support

2 **Rate or tax supported**

3 **Endowd**

.424 According to function

2 **Circulating**
Free circulating libraries; for circulating libraries charging rental or fee see 027.3. See also 024.6 Rules for home use, 025.6 Loan department administration

3 **Reference**
See also 024.5 Rules for reference use, 025.5 Reference department administration

027.5 **State and government**

.6 **For special classes**
See also 021.28 Library's educational work for special classes of users, 026 Libraries on special subjects. A workmen's library of books on engineering is clast 026.62, not here, as the subject is more useful than the clas of readers

.61 General questions

.62 Libraries conducted with reference to age and sex

.621 General questions

.622 Libraries for adults
For religious organization libraries for adults see 027.674

.623 **Men**
For religious organization libraries for men see 027.6742

.624 **Women**
For women's room see 022.57. For religious organization libraries for women see 027.6743

.625 Children's and yung people's libraries and departments
Library work with children. See also 021.3 Library in relation to schools and the yung, 021.67 Home libraries, 022.58 Children's room, 027.675 Religious organization libraries for yung people, 027.8 School libraries, Sundayschool libraries, 028.5 Reading of yung

1 **General questions Method**

12 Instruction in use of books and catalog

13 Disciplin

15 Story telling

.626 **Groups by age**
Picture book group

.627 **Boys libraries**
Boy scout libraries, etc. For religious organization libraries for boys see 027.6752

.628 **Girls libraries**
Campfire girls libraries, etc. For religious organization libraries for girls see 027.6753

.63 Foreners and special racial groups
For library's educational work for foreners see 021.28

.632 According to language
Divide like 400, preferably using country divisions (027.633–.639) when possible

.633–.639 According to country of origin
Divide like 930–999, e. g. libraries for negroes 027.636. Divide by country when possible, using language divisions (027.632) for groups like Semitic, Aryan, Teutonic, English etc

.64 Industrial classes Workmen's libraries
For discussion of library in relation to intellectual life of laboring classes see 331.85

.642 Factory

.643 Railroad

.644 Marine Ship libraries
Merchant marine libraries, library work with sailors, libraries in sailors homes. For warship libraries and library work with navy see 027.653

027.65 Government units
For general national and state libraries see 027.5. For such government department libraries as ar primarily libraries on special subjects, sce 026

.652 Army: military post libraries, camp libraries
Work with soldiers. See also 940.477 Welfare work in World war

.653 Navy: warships, navyyards
For merchant ship libraries see 027.644

.655 Police stations

.656 Fire stations
Clas herc libraries for firemen, even when the fire organizations ar voluntary

.657 Lifesaving servis: stations, lighthouses Bridge tenders

.66 Welfare institutions Work for the afflicted

.662 Hospitals and asylums
1 **General questions**
2 **General hospitals Sanitariums**
3 **Insane Feebleminded**
4 **Def Dum**
5 **Poorhouses**
6 **Libraries for aged, infirm, invalids**

.663 **Blind**
Library work for blind; reading for blind; types

.664 Reformatories

.665 Prisons

.67 Religious organizations
See also 026.2 Religious libraries, 027.83 Sundayschool and parish libraries

.672 Monastic

.673 Religious societies
Salvation army

.674 Adults
2 **Men**
See also 267.3532 Library as part of Y M C A
3 **Women**
See also 267.5532 Library as part of Y W C A

.675 Yung people
2 **Boys**
3 **Girls**

.678 Sectarian (Christian)
Not limited as to subject but selected with sectarian bias. Divide like 280

.679 Non-Christian religious organizations
Divide like 290

.68 Social groups
Social clubs, hotels, ocean liners. For society and club libraries where the library is the primary consideration see 027.2;027.68 is for libraries conducted incidentally (with or without charge) in connection with social clubs etc

.69 Other
Clas under 027.62–.68 libraries coverd by those general heds, even if not specificly mentiond. Clas here only those libraries not otherwize provided for. Divide like main clasification

.7 College, university
For libraries of professional and technical schools see 026

027.8 School Sundayschool Parish

.81 General questions

.82 School libraries
See also 021.3 Library work in relation to schools and the yung, 027.625 Children's libraries, 027.7 College and university libraries, 028.5 Reading of yung, 371.64 Libraries as school equipment

.822 Types
2 **Elementary**
22 Kindergarten
3 **Secondary**
4 **Traveling**
See also 021.65 Traveling libraries in general

.823–.829 In special countries
Divide like 930–999

.83 Sundayschool and parish libraries, etc

.831 Sundayschool libraries
See also 268.233 Library as part of Sundayschool equipment, 268.336 Librarian as part of Sundayschool personnel

.832 Parish or parochial libraries
See also 257 Parish educational work

.833–.839 In special countries
Divide like 930–999

.9 Free reading rooms and newsrooms
See also 022.17 Location of branch newsrooms and reading rooms, 022.5 Reading rooms (under Lihrary bildings), 024.5 Rules for reference use, 025.5 Administration of reference department

.92 Reading rooms
See also 331.85 Reading rooms in relation to intellectual life of laboring classes

.922 Newsrooms
See also 022.6332 Newsrooms, under Library bildings

.93–.99 In special countries
Divide like 930–999

028 Reading and aids

See 374.1–.2 Self education by private reading and reading circles

.1 Methods

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2 Choice of editions

Annotations, indexes, paper, type

.3 Courses of reading

Both discussion and lists of books

For sets of books representing prescribed courses for general culture, e. g. *Harvard classics*, see 080

.4 Fiction Novel reading

Discussion. Short selected lists may be put here, tho all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.843, etc.)

.5 Reading of young Juvenils

Both discussion and lists of books

.6 Professorships of books and reading

Lectures. Stimulus and guidance in schools

.7 Use of reference books

.8 Aids to readers

Guidance, printed or personal. See also 028.6 and 025.5

.9 Character of reading in libraries

029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best servd by referring to 025 and 028 insted of repeating the heds

.07 Study and teaching

.1 Methods

Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.1 is for what one *learns* how to do by an improved *method*

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature

.2 Appliances Laborsaving tools and devices

See also 651. Most literary laborsaving devices go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc. cases, see 025.8; for binders, 025.7

.3 Clippings Scrapbooks or files

See also Files, 651.5

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing Index rerums Printed and patent indexes

For alfabeting and transliteration see 025.3

.6 Authorship Writing for press Copy and proof

See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

030 General cyclopedias

Subdivided according to language

031 American

Limited to cyclopedias in English publisht in North America

032 English

All cyclopedias in English publisht outside North America

033-036 Divided by language like 430-460

E.g. 033 German, 033.931 Dutch, 034 French, 034.99 Catalan. But clas Scandinavian cyclopedias in 038

037 Russian

.8 Other Slavic or Slavonic

Divided like 491.8; e.g. 037.85 Polish

.9 Ukrainian Ruthenian

038 Scandinavian

.6–.82 divided like 439.6–.82; e.g. 038.82 Norwegian

039 Other

Divided by language like 420–499, except for those specially provided for above; e.g. 039.89 Modern Greek, 039.94511 Hungarian

040 General collected essays

Subdivided like 030

050 General periodicals Magazines

Subdivided like 030

060 General learned societies

Subdivided according to country

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e.g. 550.6 Geologic societies. See also 360 Institutions and associations, for filanthropic, political, social and similar organizations

061-067 divided like 071-077

E.g. 061.44 Massachusetts learned societies, 061.2 Mexican, 063.8 Polish, 066.9 Portuguese

068 Other

Divided geografically like 930–999, except for those specially provided for above; e.g. 068.481 Norwegian, 068.82 Argentine

069 Museums Museum economy

The following classification is somewhat reduced from the schedules prepared by a committee of the American Association of Museums, consisting of L. V. Coleman, chairman, E. O. Hovey, H. W. Kent and H. L. Madison. Developt primarily for museum use, many subjects ar included in the ful schedules (for which see eds. 12 and 13) for which provision is made elsewhere in the main classification. For these it is recommended that in general the other number be used (e.g. see note under 069.018). For complete list of form divisions see Table 2 following Relativ index

.01 **Theory: Objectivs, ideals, scope, etc.**

.011 may be divided like .01 in Table 2 following Relativ index, e.g. 069.0111 General purpose, of museums

.012 Museums from standpoint of support and control

.013 Public .016 Elementary and secondary

.014 Association Society school Children's

.015 College University .017 Private

.018 Museums from standpoint of field coverd

Including discussion of possible range of museum subjects and theoretic discussions on general museums covering several subjects, e.g. science, art and history. Material on museums devoted to a single subject may also be clast here, subdividing .018 like the whole classification, e.g. 069.0185 Science museums; but in general prefer specific subject, e.g. 507.4 Science museums

.019 Museums from other standpoints

According to phisical character, outdoor museums, expositions, etc.

SUMMARY

069.1 **Educational and recreational functions**
.2 **Buildings**
.3 **Equipment Furnishings Supplies**
.4 **Collecting Preparing Repairing Restoring**
.5 **Collections Exhibits**
.6 **Administration**
.7 **Publications and publishing**
.8 **Research**

069.1 Educational and recreational functions

Including museum functions in Americanization, conservation, etc.

.107 Principles of museum education

Museum work with children, school service, adult education

.13 Lending objects, collections, exhibits

For scope and character of lending collections see 069.56

.14 Lending slides, films, projectors

Includes lending of written lectures to accompany slides; also sale and exchange of slides and films. For scope of slide and film collections see 069.57

069.15 Museum instruction

Information buros, lectures, story hours, museum games, study clubs, field instruction, training teachers in use of museum facilities, etc.

.16 Music in museums .18 Publicity

.2 Buildings

Clas here general works on museum buildings and works including descriptions and pictures of a considerable number of buildings. Descriptions and pictures of an individual museum ar best clast with history of that museum in 069.09

.21 Location, site, improvement of grounds, etc.

.22 Architectural design and decoration

.23 Materials Construction

Including preservation and repair. Foundations, walls, roofs, floors, ceilings, windows and doors, stairs, fire escapes, etc.

.24 Construction of special rooms

Including museum rooms in schools, libraries, etc. May be alfabeted by rooms

.28 Reconstruction

Remodeling, catastrofies, etc.

.29 Service construction

Including service machinery, fixtures and fittings. Plumbing, lighting, heating and air conditioning, power construction, fire protection, 1st aid cabinets, etc. For fixtures for specific rooms see 069.36

.3 Equipment Furnishings Supplies

For service equipment see 069.29

.31 Exhibit cases Screens Pedestals

Cases, etc. for special purposes should be clast with purpose

.32 Exhibit apparatus

Projection, viewing and sound apparatus. Lanterns, phonografs, etc.

.33 Furnishings Fittings Furniture

Including desk fittings, tools, implements, storage containers, museum glasware, etc. When limited to special purpose clas with purpose; furnishings for special rooms clas in 069.36

.34 Supplies General materials

Cleaning supplies and use, fuel, stationery, etc. Materials for general use: Wood, stone, metal, paper, glas, chemicals, glues, etc.

.36 Equipment of special rooms

May be alfabeted by rooms

.4 Collecting Preparing Repairing Restoring

This section is for all methods, special equipment and materials involvd in preparing objects and specimens for exhibit or for incorporation into a study collection. Since preparation of certain kinds of material is begun in the field, it is impossible to divorce the collecting from the preparation of these. On the other hand, much material, specially in art, is collected by methods treated under 069.51 Acquisition, so only its 'getting redy' (restoration and repair) is included here. The tecnic of excavating (069.419), however, applies in part to works of art

069.41 Modeling Molding Casting Coloring
Including materials used; e.g. clay, wax, plaster, glas and other plasties; fabrics, etc.

.411 Modeling Pattern making
.412 Molding
.413 Casting
.414 Electroplate reproduction
.415 Coloring
.419 Excavating

.42 Construction of models
Architectural, ethnografic, etc. Models of caves, animals, plants, etc. Relief maps, etc.

.43 Construction of groups
Composition, layout, field work, backgrounds and foregrounds, case and lighting, etc.

.44 Expeditions
Equipment, supplies, personnel, transportation, relations with nativs, guides, regional information, protection of materials, packing, etc.

.45–.49 Collection and treatment of special materials

.45 Science materials
.451–.459 may be used corresponding to the divisions 51–59 of 500 Pure sciences, e.g. 069.455 Geologic materials: rocks, minerals. Use 069.4592 Invertebrates, 069.4596 Vertebrates

.46 Industrial and commercial materials

.47 Art materials
.471–.476 may be used corresponding to the divisions 71–76 of 700 Fine arts, e.g. 069.473 Sculpture, ceramic materials

.477 Textils Weaving
.478 Wood and metal work
.479 Other art objects

.48 Literary material .49 History material

.5 Collections Exhibits

.51 Acquisition Disposal
Policy, manner of selection and disposal, terms of gift or bequest, purchases, sales, dealers, prices, terms of loan, exchanges, etc.

.52 Registration and recording system
Accession record, catalog, index, donor list, etc.

.53 Exhibition
Discussion only. Principles of visual presentation: arrangement of exhibits, museum fatigue. Originals v. reproductions; scope, classification, correlation of exhibits; temporary exhibits; installation methods and devices; labels and labeling; public catalogs, guides, gallery leaflets, etc.

.54 Specific museum material
For data concerning museum objects themselvs, whether exhibited or in reserv, including thefts, forgeries, etc. May be divided by subject like the whole classification, e.g. 069.54913 Data on antiquities as museum objects

069.55 Study collections: scope, arrangement, housing
Classification, tagging, shelving, storage, etc.

.56 Lending collections: scope, arrangement, housing

.57 Filed collections and materials
Including all information concerning material and accessories which ordinarily ar filed for preservation. Photografs, negativs, slides, films, maps, broadsides, etc.

.58 Library
.581 and .583–.585 may be used and subdivided like 021 and 023–025 of Library economy so far as applicable, e.g. 069.581 Scope of museum library, 069.5852 Acquisition of books. Clas material on construction of library room in 069.24, on equipment in 069.36

.6 Administration

.61 Organization
including discussions of questions involvd in founding and in relationship to federal, state or local government, in so far as control is concernd; various forms of organization, etc. Charters, constitutions, bylaws, membership, etc.

.62 Principles Regulations Ethics
Including publisht codes of rules; regulations for staf, members, visitors, patrons, students, etc.

.63 Personnel
Professional requirements, qualifications and duties, appointment, hours, vacations, etc. Governing board, staf, women's auxiliary, etc.

.64 Finance
Value of collections and other property, income, expenses, plant (including agreements with government for use of public land and buildings), endowment, accounting and budgeting; employes welfare, pensions, employe clubs, etc.

.65 Office methods
Filing, correspondence, statistics, etc.

.66 Care of buildings and grounds

.67 Branch museums Outdoor exhibits
For outdoor museums see 069.019. See also 069.52 for registry of outside objects

.68 Cooperativ relations
Intermuseum relations; relations with other institutions, groups, etc.: with schools, business world, etc.

.7 Publications and publishing
For discussions of publication and for complete file of an institution's own publications: authorship, publishing arrangements, printing, binding, distribution, storage, etc. *Also for other museum publications when clast as such*, for use as format, sample publications, etc. When dealing with special subject they ar preferably clast under subject, e.g. museum reports in 069.09

.8 Research

070 Journalism General newspapers

See also 029.3 Clippings Clipping bureaus
179.1 Morals of the press
323.445 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 Utility Theories Relations to other professions
For government relations see 070.15

.11 Standards Ethics Influence Responsibility
General and higher view, educativ influence; for degradation of the press see 070.16

.12 Endowd newspapers
Independence of popularity

.13 Liberty of the press Censorship
Individual privacy; diplomatic secrets; seditious or anarchic influence
See also political science, 323.445 Freedom of the press

.14 War censorship

.15 Subservience to special interests
Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or ' yellow ' journalism
Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals
Those with editors or place of publication unknown

.19 Other general questions
Comparison of field, importance and influence of newspaper, periodical and book

.2 Ownership and control

.22 Newspaper names

.23 Location

.232 Metropolitan Large city

.234 Provincial Small city

.236 Rural or village

.26 Syndicates Patent insides

.3 Business management

.31 Staf and workmen

.311 Offis staf
Manager, stenografers, bookkeepers, clerks, messengers

.312 Workmen
Compositors, foundrymen, pressmen, mechanics, laborers

.315 Hours, shifts

.318 Newspaper strikes

070.32 Newspaper printing
Clas here discussion of economy and other advantages of special methods and appliances
For mechanism and operation of newspaper presses see 655.31 Printing presses

.321 Size of page

.322 Methods and appliances

2 Composition: linotype, monotype, etc.

3 Stereotyping

4 Presses

.324 Newspaper cuts: wood, zinc line, halftone

.325 Frequency of issue
Daily, semiweekly, weekly, etc.

.327 Time of issue
Morning, evening, successiv editions, extras

.328 Size of editions, number printed

.33 Distribution Circulation Salê

.331 Direct: subscription Mailing

.332 House delivery

.334 Indirect: newsboys, news agencies, etc.
Crying and peddling in streets; news stands

.336 Advertizing methods
Subdivided like 659.1 Advertizing

.337 Specialties
As means of increasing circulation. For special departments see 070.43-.44
Regular: foren or marine news, stocks, sporting, etc.
Occasional: adoption of popular causes, exposure of abuses, etc.

.338 Other means of increasing circulation
Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

.34 Cost of production Expenses

.341 Plant: bilding and equipment, offises
Duplicate plant. Depreciation of machinery

.343 Supplies: paper, stationery, etc.

.344 Salaries and wages
Space rates. Pay of journalists, pecuniary inducements of vocation. Traveling expenses

.345 Postage: pound rates, free carriage

.348 Advertizing
Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336

.349

.35 Sources of income Receits
Sales, subscriptions, subsidies. For bribes see 070.16

.36 Advertizing department
Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.112

.39 Foren offises
Subdivided like 940-999; e.g. *N. Y. herald* office in Paris 070.394436

070.4 **Editorial management**
.41 General
Editing rules: order of departments and articles; style; newspaper diction
.42 Staf: reporters, correspondents
Organization: bours, duties. For pay see 070.344
.43 Editorial departments
.431 News
1 **Sources and channels of news**
Telegraf, telefone, wireless, mail, reporters, carrier pigeons, other
Utilization and precautions; conflicting news
2 Press bureaus: associated press
Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers
5 **Foren**
6 **Home**
7 **Local**
.432 Leaders, editorials
.433 Local interests
Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317
.44 Special subjects: departments and editors
.443 Financial: stocks, business, shipping, etc.
.445 Household Home Women Children
2 **Cookery**
4 **Clothing Fashions**
6 **Hygiene Care of children**
7 **Women's clubs**
8 **Children's department: games, puzzles, etc.**
.446 Recreation Sporting
.447 Art, musical and dramatic
7 **Art**
8 **Musical**
9 **Dramatic**
.448 Literary
1 **Poetry**
3 **Fiction**
.449 Other departments
2 Religion; 3 Education; 5 Science; 8 Humor
.45 Voluntary correspondents Contributors
.47 Special editions
Sunday newspaper. Supplements. For extras see 070.327
.48 Special kinds of journals
.481 Official journals
.482 Religious
.484 For foren population
In language foren to country in which publisht
.485 Propagandist
.486 Professional and technical
.487 Humorous
.488 Literary

070.489 Other: amateur, etc.

070.5-.9 Form divisions

.5 **Periodicals on journalism**
.6 **Press clubs Conventions Expositions**
.7 **Study and teaching of journalism College courses**
Schools Personal qualifications for journalism
.9 **History of newspapers and journalism**
General History of American newspapers 071, of German journalism 073, etc. Clas history of a particular journal with that journal

071-079 Newspapers of various countries

The 3d figures 1–9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940–999. Because of large size and very general character, it is better to keep newspapers together here than to clas with local history of the place where publisht. They could not go on shelvs with ordinary books, and a reference is made as easily to them under 070 as anywhere.

080 Polygrafy Special libraries

For sets or 'libraries' so constituted as not to be redily scatterd by subjects, and miscellaneous information; but clas in 807.6 literary questions and ansers. 080 includes works composed of several distinct writings, united in a single collection or series other than periodicals, newspapers and collections of lerned societies. Collections conditiond by terms of gift on being kept together may be put here, but for preferable treatment of sets, see in Introduction, Assyning clas numbers, section 11, and Reference library. If limited to a special subject, treat like Phoenix library, but shelv the collection in a block before or after the regular books on the same subject; e.g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belongd with the rest of the books on that subject.

081 Individual polygrafy

Complete or partial collections of an author's works, treating of various subjects. If they treat exclusivly or mainly of one subject they ar clast with that subject

082 Collectiv polygrafy

Distinct works of several authors, treating of different subjects and publisht in a collection

.1 Libraries or series

Clas here only such as include several branches of knowledge

.2 Miscellanies, extracts etc.

Clas here only such as include several branches of knowledge

083 Official publications

Official publications of countries, states, provinces, cities and other public bodies and powers may be clast together here but ar much better clast with subject treated or, if too general for that, with the body by which they ar issued

087 Publications for various classes of readers

.1 Children's literature

Children's collections may be clast here but ar much better kept as a separate collection markt J, the separate books being given their regular subject numbers (see section relating to Juvenils, in Introduction)

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 094. 090 is mostly used for grouping references to books located elsewhere.
See also 010 for bibliografy and bibliofily; 655 for printing and publishing.

091 Manuscripts

Clas in 096 mss important chiefly for illumination. Photografs of mss, when more valuable for subject matter, go with subject rather than here
For Diplomatics and Paleografy, see 417, and under the special language, 421.7, 431.7, etc.

.5 Autografs

.6 Printed works with notes in hand of celebrated writers

When notes ar by author of work, clas in 091.5

092 Block books

093 Books printed before 1500 Incunabula

Colophons

094 Rare printing

.1 Books of great rarity but later than incunabula

Typografic masterpieces (Aldines, Elzevirs, Caxtons, etc.); small editions; privately printed books; books interesting from choice of type, accuracy etc.

.2 Unique copies

.3 Editions de luxe

On colord or large paper or printed in colors

.4 First editions

095 Rare binding

Noted binders, costly ornaments, curious bindings, bindings bearing coats of arms

096 Rare illustrations or materials

.1 Rare illustrations

Illuminated. Illustrated by inserted plates

.2 Rare materials

Printed on vellum, silk, bark etc. in gold or silver letters etc. Works in caracters woven, carvd, engraved etc.

097 Ownership Book plates Ex libris

098 Other classes of works, based on inner caracteristics

.1 **Prohibited books**
Condemd by temporal or spiritual power. Books supprest or censord Library inferno. Obscene books, sold secretly

.11 Prohibited by religious authorities
Index expurgatorius. Index librorum prohibitorum. Books proscribed as contrary to church faith, tradition or disciplin

.12 Prohibited by civil authorities
Contrary to morality, government or social peace. Seditious, satirical or libelous books

.3 **Books lost, imaginary, supposed, projected**

.5 **Books with key**

099 Other classes of works, based on outer caracteristics Curiosa

.1 **Minute size, etc.**
Microscopic editions, dwarf books

Philosofy

100 Philosofy in general

Works limited to none of the 9 divisions

101 Utility

102 Compends Outlines

103 Dictionaries Cyclopedias

104 Essays Lectures Addresses

105 Periodicals Philosofic magazines

106 Societies: transactions etc.

107 Study and teaching of philosofy

108 Polygrafy, extracts, maxims etc.

109 History of philosofy

See also 140 Philosofic sistems, 180 Ancient philosofers, 189 Erly Christian and medieval philosofers, 190 Modern philosofers

110 Metaphysics

111 Ontology

Nature of being. Substance and form

.1 **Analisis of idea of being, of 1st substance**

.11 Existence

Distinction from essence

.12 Essential being Essence Quiddity

.125 Possible being Intrinsic possibility

Divine essence and the possible

.3 **Substance Monad**

.31 Distinction from accidents Phenomenalism

See also 142 Phenomenalism (philosofic sistem)

.32 1st substance Individual substance

Subsistent being, hypostasis

.321 Formal reason of subsistence

.322 Principle of individuation of corporeal beings

Immultiplicability of separate forms in a given space

.33 2d substance Abstract essence

.4 **Accidents**

.41 Existence of accident

Conjunction with or separability from substance

.42 Qualities Powers Operativ possibilities Forces Faculties

.5 **Relation**

.51 Existence of real relations

Confuson of their reality with that of correlativ terms; relativistic theories

.6 **Acts Operations**

.61 Being in potentiality Being in act

For applications to substantial action see 113 Cosmology, 231.8 Theodicy

.62 Motion Evolution

General law: nothing actualizes itself. See also 116 Motion in cosmology, 146 Evolutionism (philosofic sistem), 575 Evolution in biology

.7 **Created and uncreated being Immateriality**

.8 **Transcendental properties of being**

.81 Distinction between being and its transcendental properties

Number of transcendental properties, primary principles

.82 Unity Nonexistence Plurality

Unity and indivisibility of being

.821 Real distinction Distinction of reason

Oneness, identity; unity of composition, simplicity; metaphysical composition; multitude, indefinit number; possibility of infinit multitude. See also 119 Number in cosmology

.822 Unity Transcendental property of all being

Reconciliation of unity of beings with their synthesis

111.83 Truth

See also 177.3 Ethics

.831 Conformity with an ideal type

God and truth. Unity or multiplicity, eternity or temporality, immutability

.832 Truth, transcendental property of all being

The false in nature

.84 Goodness Evil

See also 179.9 Ethics, 216 Good and evil in natural theology

.842 Goodness, transcendental property of all being

.845 Evil: its relativity, its cause

.85 Beauty

See also 701.17 Esthetics

.851 Objectivity and subjectivity of sentiment of beauty

.852 Beauty, transcendental property of all being

112 Methodology

Philosofic clasification of knowledge. Terminology. For book clasification see 025.4

113 Cosmology

Philosofy of nature, physical or inorganic world from philosofic viewpoint, cosmos, nature, universe; general laws of nature, substantial transformation and corruption, origin of world, cosmogony

Philosofic theories and discussions. See also 117 Matter, 146 Mechanism, 510.1 Philosofy of mathematic processes

114 Space Locus Void

Internal and external space, infinit space, plenum. See also 115.4 Space-time; 119 Quantity, number; 152.752 Space perception

115 Time Duration Eternity

Relation of time and motion. See also 116 Motion; 119 Quantity, number; 152.753 Time perception; 218 Eternity in natural theology; 237.1 Eternity in Christian theology

.4 **Space-time**

116 Motion Change Transition

Movement; transitional, inherent, remote action; event. See also 111.62 Motion in ontology, 115 Relation of time and motion, 152.754 Perception of movement

117 Matter Body

See also 118.2 Identity of energy and matter

118 Energy Force Power

Properties or accidents of inorganic substances. See also 531.6 Conservation of energy

.2 **Identity of energy and matter**

See also 117 Matter

119 Quantity Number Extent

Mesurement, bulk, mas; continuity, continuousness. Distinction from substance; quantity and principle of individuation of corporeal substances. See also 114 Space, 115 Time

120 Other metaphysical topics

121 Epistemology Theory of knowledge
Origin, sources and limits of knowledge. Relativity of knowledge. The unknowable. Dout. Denial. Belief. Faith. Theory of values, worth. See also 165 Logic

122 Cause and effect Causality Causation
Material cause, formal cause, efficient or moving cause, original cause; condition, occasion. See also 124 Final cause

123 Freedom and necessity
Contingence. Chance. Liberty. Determinism. Indeterminism. See also 159.1 Freedom and determinism in psychology, 233.7 Freedom in theology, 234.9 Predestination

124 Teleology Purpose Final cause
Norm, pattern, ideal, perfection, archetype, exemplars, exemplary cause

125 Infinit and finite Indefinit

126 Consciousness Personality
The self. See also 153.7 Psychology, 233.6 Religious doctrin

127 The unconscious The subconscious
Unconsciousness, subconsciousness, automatism. See also 153.8 Psychology

128 The soul
Nature of life and deth

129 Origin and destiny of individual soul
.1 **Special creation**
See also 213 Creation
.2 **Inheritance Traduction**
See also 136.3 Mental heredity, 233.3 Spiritual heredity, 575.1 Evolution
.3 **Pre-existence**
.4 **Transmigration Palingenesis Metempsychosis**
Incarnation, disincarnation, reincarnation
.5 **Emanation**
See also 147 Pantheism, 212 Natural theology
.6 **Destiny**
Immortality, survival, annihilation etc. See also 218 Natural theology, 237 Future state

130 Physiologic, abnormal and differential psychology Metapsicology

For general psychology see 150. See also note under 150

SUMMARY

131 Mental physiology and hygiene Physiologic psychology
132 Mental derangements
133 Transcendental psychology Occultism Occult sciences
134 Hypnotism Animal magnetism
135 Sleep and wakefulness Dreams Somnambulism
136 Genetic psychology Mental caracteristics
137 Individual psychology Individuality Personality
138 Physiognomy
139 Phrenology Mental photografs, etc

.1 **General theory**
For other subdivisions and other form divisions see Table 2 following Relativ index

.16 Miscellaneous theories
Relations of mind and body, psiconeural parallelism. Philosofic anthropology. Mutual influences of sensitiv and suprasensible life

.162 Dualistic theories
2 **Interaction**
22 Mutual interaction
23 Occasionalism
24 Cause theory Influxus physicus
See also 122 Cause and effect
3 **Parallelism**
32 Preestablisht harmony
33 Methodologic parallelism
Physiologico-psychologic parallelism
34 Psychophysical parallelism Pseudomonistic
342 Double or dual aspect theory
343 Naturalistic theory
See also 130.16322 Conscious automaton theory

.163 Monistic theories
2 **Materialistic Materialism Mechanistic**
See also 146 Materialism
22 Conscious automaton theory Automatism
See also 127 Unconsciousness, automata; 130.16234 Psychophysical parallelism
23 Epiphenomenon theory Epiphenomenalism
3 **Spiritualistic Spiritualism Idealism Animism**
See also 128 The soul, 141 Idealism
32 Spiritual monism Psychic monism
See also 147 Monism
33 Panpsychism Spiritual pluralism
See also 147 Pantheism
34 Mind-dust or mind-stuf theory

131 Mental physiology and hygiene Physiologic psychology Psychophysiology
For anatomy and physiology of special senses and mental functions see 150; see also 611.8 Anatomy of nervous sistem, 612.8 Physiology of nervous sistem, 150.72 Experimental psychology

.1 **Anatomy of nervous sistem**
Evolution and development. May be divided like 611.8. Most important subdivisions ar given below

.11 Brain
Form, size, weight. See also 611.81 Anatomy

.12 Spinal cord
See also 611.82 Anatomy

.13 Nervs
See also 611.83 Anatomy

.139 **Simpathetic and autonomic nervous sistem**
See also 611.839 Anatomy

.2 **Physiology of nervous sistem**
May be divided like 612.8. Most important subdivisions ar given below

.21 Nerv fibers Neurons Fibrils
Nerv elements, nerv impulse, nerv connections, synapse. See also 612.81 Physiology

.215 **Physiologic morfology of nervous stimulation**
End organs and receptors of nervous sistem. See also 612.815 Physiology

1 Sensory terminations

2 Motor "

.22 Nerv centers Brain
See also 612.82 Physiology

.222 **Nerv cels and nerv centers**

1 Chemistry of nervous sistem

.225 **Cerebral convolutions (cortex)**
May be divided like 612.825. See also 612.825 Physiology

2 Psychomotiv centers Localizations
Divide like 612.8252

5 Sensory functions of convolutions
Divide like 152 Sense perceptions

8 Intellectual and motor functions
Divide 83–89 like 153–159 Psychology

.23 Spinal cord and nervs
See also 612.83 Physiology

.233 **Reflex and automatic functions**
See also 612.8216 Psychic reflexes, 612.833 Spinal reflex action

.29 Simpathetic and autonomic nervous sistem
See also 612.89 Physiology

.3 **Mental hygiene**
See also 132 Abnormal psychology, 613.8 Hygiene of nervous sistem

.32 Mental helth Menticulture Helth promoting agencies

.323 **Influence of personal habits, diet etc on mental helth**
May be divided like 613 Hygiene

.324 **New thought**
Mental science, new metaphysic movement, metaphysic healing. See also 615.851 Mind cure

131.33 Unhygienic agencies

.334 **Action of poisons**
See also 612.8214 Physiology, 615.95 Neurotic poisons

1 Alkaloids

2 Nonalkaloids

4 Alcohol

.335 **Effect of disease**
See also 612.8215 Physiology

.336 **Effect of overwork, fatigue, mental strain**

.337 " " **worry**

.34 Psychoanalisis
See also 153.8 Depth psychology

.3407 Clinics Training classes

.341 **Explanations of mental processes**

2 Dynamic

22 Instincts: ego instincts, sex instincts, etc
Libido, ambivalence

23 Complexes: Oedipus complex, Electra complex, inferiority complex, etc

24 Conflict: censorship, repression, regression, conversion, transference, fixation, rationalization, simbolism, sublimation, compensation etc

3 Economic
Plesure-pain principle, reality principle, etc

4 Topografic
Id, ego, super-ego

.342 **Technic and methods**

2 Cathartic method Abreaction

4 Free association

5 Suggestion

7 Reeducation

.346 **Psychoanalitic schools or sistems**

2 Freud: sexual view

3 Adler: purpose-force view

4 Jung: energic view

5 Stekel

6 Kempf: dynamic mechanisim

.348 **Applications**
Divide like main clasification; e.g. 2 Religion, 37 Education, 572 Anthropology, 615 Therapeutics

132 Mental derangements

Pathologic psychology, abnormal psychology, mental diseases, psychopathy, psychiatry, psychopathology, teratologic psychology. For legal aspects see 340.6 Medical jurisprudence, 347.1 Legal capacity; for medical discussions see 616.8. The form divisions ar those of 616 and ar applicable to all subdivisions of 132. Clas pathology of special psychologic functions with those functions

.01 Theory
.011 Causes
.012 Clasification
.014 Language Terminology Nomenclature
For dictionaries see 132.03
.015 Theories derived from the pure sciences
Divide like 500
.016 Miscellaneous theories
8 Popular theories and errors
.02 Compends Handbooks Outlines
.03 Dictionaries Cyclopedias
.04 Essays Addresses Lectures
.05 Periodicals
.06 Organizations
.061 Government departments, state boards, etc
.062 Nongovernment organizations
Societies, clubs etc
.063 Congresses
.07 Study and teaching .075 Diagnosis
.08 Polygrafy Collections Extracts
.09 History
.092 Case histories, biografy

132.1 Insanity Mental alienation

Craziness, madness, lunacy. Use form divisions of 616 (being more fully developt). For housing, management and care see 362.2 Hospitals for insane

.13 Organic brain diseases
.14 Functional brain diseases
.143 Neurasthenia Cronic nervous exhaustion
.15 Neuroses Psychoneuroses
.151 Chorea Huntington's chorea
.152 Hysteria
Shel shock, etc. See also 132.3 Hypochondria, 132.4 Catalepsy, 135.5 Somnambulism
2 Psychasthenia Obsessional or anxiety neurosis
Obsessions, phobias
3 Dissociation of personality
See also 137 Personality
32 Depersonalization
33 Alteration or transformation of personality
34 Fragmentary personality
Dual, secondary, alternating and multiple personalities
35 Fugues
.153 Epilepsy Narcolepsy
.155 Aphasia Alexia Amusia Agraphia Apraxia etc
.156 Anesthesia Hyperesthesia Hypesthesia Paresthesia
.16 Neuroses due to special poisons
.161 Alcoholism
See also 132.72 Dipsomania
.162 Metallic tremor
.19 Special psychoses and syndromes
.192 General paralysis of insane Dementia paralytica Paresis
.193 Confusional insanity
Mental confusion: acute and primitiv. Delirium: acute, febril, collapse, exhaustion (acute organic reaction types)
1 Pathologic intoxication (mania a potu)
2 Delirium tremens
3 Abstinence delirium
4 Traumatic delirium: immediate, protracted
5 Exhaustion delirium Exhaustion psychosis
6 Acute hallucinosis
7 Acute pseudoparanoia
8 Korsakow's psychosis
9 Other

132.195 **Manic-depressiv insanity**
General unsistematized delusions; affectiv reaction types
1 Manic type: mania, expansiv psychosis; euphoria
12 Hypomania
13 Acute mania
14 Delirious mania
15 Cronic mania
3 Alternating, periodic or circular type
Circular insanity (folie circulaire); insanity of double form; cyclothymia, variability of mood
4 Depressiv type
Depressiv psychosis, pathologic sadness and grief, hypochondria, melancholia. See also 132.3
42 Simple retardation
43 Acute depression
5 Stuporous type Depressiv stupor
6 Mixt type
62 Manic stupor
63 Agitated depression
64 Unproductiv mania
65 Depressiv mania
66 Depression with flight of ideas
67 Akinetic mania
7 Involution melancholia
See also 132.35 Melancholia

.197 **Paranoid reaction types**
Partial, sistematized; unopposed, polymorfic diffused delusions; delusional insanity
2 Paranoia
22 Original
23 Acquired
24 Abortiv
25 Latent
26 Paranoia querulans Querulous paranoia
3 Paraphrenia
32 Sistematic
33 Expansiv
34 Confabulatory
35 Fantastic
4 Paranoid states or paranoid constitution
Narcissism

132.198 **Dementia**
Cronic organic reaction types
1 Acute or furious dementia Primary dementia
12 Alcoholic dementia
See also 132.161 Alcoholism, 132.72 Dipsomania
122 **Alcoholic deterioration**
123 **Cronic alcoholism**
124 **Alcoholic pseudoparesis**
125 **Alcoholic epilepsy**
See also 132.153 Epilepsy
126 **Cronic hallucinosis**
13 Traumatic dementia
132 **Traumatic constitution**
Vasomotor neurosis, explosiv diathesis
133 **Post-traumatic mental enfeeblement**
2 Dementia precox and schizophrenic reaction types
Neuroepithelial dementia, discordant insanity, secondary or terminal dementia. See also 132.195 Manic-depressiv insanity
22 Simple type: schizophrenia simplex
23 Katatonic type: katatonia, katatonic dementia
24 Hebephrenic type: hebephrenia, hebephrenic dementia
25 Paranoid type: paranoid dementia
See also 132.197 Paranoid reaction types
26 Mixt type
3 Senile dementia
31 Simple senile deterioration
32 Presenile dementia
33 Senile delirium; delirious and confused types
34 Presbyophrenia
35 Alzheimer's disease
36 Deprest and agitated type
37 Senile and cronic pseudoparanoid type
38 Arteriosclerotic type
382 **Post-paralytic dementia**
383 **Post-apoplectic dementia**
39 Other

132.2 Mental deficiency
Amentia, foolishness, arrests of development, maldevelopments, stupidity. Use form divisions as in 132. For housing, management and care see 362.3 Hospitals for idiotic, imbecils, feebleminded; for education of feebleminded see 371.92

.22 Psychopathic personality
Constitutional psychopathic inferiority

.222 Emotional
2 Emotional instability
3 Pseudoquerulance
4 Eccentricity

.223 Moral imbecility or insanity
See also 132.6–.7

.24 Intellectual defect
See also 151.2 Intelligence tests

.242 Grades
2 Idiocy
3 Imbecility
4 Moronity Feeblemindedness
5 Borderline and dul normal

.243 Accompanying deformity
2 Brachycephalism
22 Mongolism
23 Kalmukism
24 Tartarism
3 Hydrocephalism
4 Microcephalism

.244 Accompanying disease and injury
1 Amaurotic family idiocy
2 Cretinism Myxedemism
See also 616.997 for medical viewpoint
3 Paralytic types
4 Epileptic types Eclampsic types
5 Syphilitic types
6 Inflammatory types
7 Sensory-deprivation types
8 Traumatic types
9 Other

132.3 Hypochondria Melancholia
As separate mental states. See also 132.1954 Manic-depressiv insanity, depressiv type; 616.852 Hysteria

.32 Hypochondria Hypochondriasis
Use form divisions as in 132

.322 Physical hypochondriasis
.323 Psychic "

.35 Melancholia Melancholy
Use form divisions as in 132. See also 132.1957 Involution melancholia

.352 Acute (recent, recurrent) melancholia Melancholia simplex

.353 Cronic (excited or hypochondriac) melancholia Melancholia agitata
2 Cotard's syndrome

.358 Special types
1 Religious
2 Delusional
3 Resistiv
4 Stuporous
5 Suicidal
6 Anxious
7 Confusional
8 Impulsiv
9 Other

.4 Catalepsy
Use form divisions as in 132. See also 132.152 Hysteria, 132.153 Epilepsy, 132.5 Ecstatics, 134 Hypnotism, 616.852 Hysteria, from medical viewpoint

.43 Degrees
.432 Complete: physical and mental
.433 Complete physical rigidity
.434 Partial physical rigidity
.435 Mental activity
.438 Duration

.44 Caracteristics

.46 Effects

.5 Ecstatics Ecstasy
Mistic or religious insanity; illuminism; visionaries. Use form divisions as in 132. See also 132.4 Catalepsy, 133.2 Hallucinations, 248 Religious ecstatics

.52 Types
.522 Voluntary or natural
.523 Involuntary or supernatural

.53 Degrees
.538 Duration

.54 Caracteristics
Ecstatic visions, trances, frenzy, rapture etc

.56 Effects

132.6 Derangements leading to crime Criminal manias
See also 132.223 Moral imbecility. For legal responsibility see 340.6 Medical jurisprudence, 347.1 Legal capacity

.62 Kleptomania
.63 Pathologic swindlers
.64 Destructiv manias: pyromania
.65 Homicidal and suicidal manias

.7 Derangements leading to vice Vicious manias
See also 132.223 Moral imbecility

.72 Dipsomania
See also 132.161 Alcoholism, 178 Temperance, 616.861 Alcoholism from medical viewpoint

.73 Drug addiction
Morphinomania or morphinism, cocainomania, etheromania etc

.74 Pathologic lying

.75 Sexual manias and aberraticns
Including those leading to crime. Sexual anomalies, sexual psychopaths. See also 176 Sexual ethics

.752 Eroticism Erotic delusions
.753 Nymphomania
.754 Sexual perversions
1 General questions
2 Exhibitionism
3 Fetishism
4 Masochism Sadism
5 Bestiality
6 Sexual inversion Homosexuality
7 Incest
8 Masturbation
9 Other

.755 Moral impotence Frigidity

.8 Mnemonic derangements Memory defects
Not knowing in one state what past in another. See also 154 Memory

.82 Hypermnesia
.83 Paramnesia Pseudo-reminiscence
See also 132.74 Pathologic lying
.84 Amnesia
.841 Complete
.842 Partial
1 Anterograde
Progressive
2 Retrograde
3 Continuous
4 Periodic
5 Circumscribed
Lacunar
6 Sensory
Divide like 152
7 Sistematized
8 Hysteric
9 Other

133–135 Metapsychology Psychic fenomena
Parapsychology, metapsychics. General works including occultism, hypnotism and dreams ar (unless one of the other subjects strongly predominates) clast in 133

133 Transcendental psychology Occultism Occult sciences
Delusions, cabalistic art. For alchemy, hermetics, alkahest, elixir of life, philosofer's stone, transmutation of metals see 540.1

.01 Theory
.015 Theories derived from the pure sciences
Divide like 500. Include under 133.015–.016 theories regarding humbugs and frauds in general, but clas those relating to a specific topic with that topic
.016 Miscellaneous theories
.07 Psychic reserch Psychic studies
Clas reserch in a special field with that field

.1 Apparitions Ghosts
Specters, wraiths, spirits, phantoms, shades, phantasms etc. See also 133.2 Hallucinations, 398.3 Folklore

.12 Localized
Hauntings, haunted houses, house spirits, poltergeister, haunted graveyards, haunted forests, etc. See also 398.32 Folklore
.13 Unlocalized
.14 Supernatural beings
Revenants, goblins, hobgoblins, loups-garous, werewolves, lycanthropes etc See also 398.4 Folklore
.15 Sea specters: Flying Dutchman, etc

.2 Hallucinations Illusions
.22 Hallucinations
See also 132.1 Insanity, 132.5 Ecstatics, 133.1 Apparitions, 133.322 Cristal gazing, 133.4 Witchcraft, 133.8 Telepathy, clairvoyance, 133.9 Spiritism (veridic hallucinations), 134.52 Hypnotic hallucinations, 135.33 Dreams, hypnagogic hallucinations

.221 Causes
2 Peripheric stimulation
3 Cerebral "
4 Reductorless images
5 Obstruction of neural paths
6 Abnormal excitation of neural paths
7 Emergence of subconscious imagery

.222 Types
2 Reproductiv
3 Constructiv
4 Creativ

133.223 **Forms**
1–6 may be further subdivided like 152.1–.6
1 Visual
2 Auditory
3 Olfactory
4 Gustatory
5 Tactil or haptic
6 Muscular, psychomotor, visceral
7 Synesthetic or reflex
.224 **Degrees**
1 Pseudo- or semi-hallucinations
2 Complete hallucinations
.24 Illusions
See also 152.73 Normal illusions
.241 **Causes**
2 Confusion of sense impression
3 Misinterpretation of sense impression
32 Passiv
322 **Determind by organism**
323 " " **environment**
33 Activ
332 **Voluntary preperception** **False recognition**
333 **Involuntary** "
.243 **Forms**
Divide like 133.223
.3 **Divination Predictions: oracles, 2d sight, omens**
Divinatory art, prognostication, profecies, Sibyllin books, etc. Sibyls, augurs, soothsayers, profets, seers etc
.32 Autoscopic
.322 **Sensory automatisms**
Cristal gazing, shel hearing, premonitions, 2d sight, presages, deth warning, etc. See also 133.83 Clairvoyance
.323 **Motor automatisms**
Divining rod (Cumberlandism), dowsing for water and precious metals (see also 622.12 Prospecting), coscinomancy (divining with a balanst siv), ring divining, ordeal by Bible and key, sand divination, divination by automatic writing, trance speaking, etc. See also 133.93 Spiritism
.324 **Mental impressions**
Cartomancy, card fortune telling, reading coffee grounds and tea leavs, etc. For Palmistry see 133.6, for Dreams see 135.3
.33 Heteroscopic
.332 **Sortilage Casting lots**
Astragalomancy (divination with dice or small bones), bibliomancy (omens drawn from Bible and other books; sortes Virgilianae) etc
.333 **Haruspication (inspection of entrails), hepatoscopy (inspection of liver), scapulimancy (divination by sholder-blade), divination by footprints in ashes, geomancy etc**

133.334 **Augury and omens**
Behavior and cries of birds, meeting ominous animals, signs, auspices, thunder and lightning, falling stars, celestial signs, prodigies, portents etc
.335 **Simpathetic omens Simbolism**
Numerology etc. For Astrology see 133.5
.4 **Witchcraft Sorcery Magic Demonology**
Black magic, white or natural magic, necromancy, psychomancy
.401 Theories
6 Miscellaneous
62 Religious aspects
63 Legal "
.409 History
See also 272.8 Persecutions
.4093–.4099 In special countries
Divide like 930–999. For New England or Salem witchcraft see also 973.25
.42 Activities and practises
Satanism, witches sabbaths, nocturnal revels; incantations, cvocations, spels, evil eye; demoniac obsession and possession, diakka; lycanthropy, incubi, succubi, vampires; flying thru air, riding on broomsticks, etc
.43 Instruments and apparatus
Black books, grimoire, conjuring books, magic metals, rituals, magician's wand, etc
.44 Means of help and protection
Exorcism, charms, amulets, talismans, philters etc
.5 **Astrology**
Judicial or mundane astrology only; for natural astrology see 520.1. Under this number and its subdivisions ar included both descriptiv and interpretiv material
.52 Zodiac signs
.522 **Works on individual signs**
.523 **According to position**
2 Northern, commanding, masculin or strong
Aries, Taurus, Gemini, Cancer, Leo, Virgo
3 Southern, obeying, feminin or weak
Libra, Scorpio, Sagittarius, Capricornus, Aquarius, Pisces
.524 **According to structure Triplicities**
2 Erthy: Taurus, Virgo, Capricornus
3 Fiery: Aries, Leo, Sagittarius
4 Airy: Gemini, Libra, Aquarius
5 Watery: Cancer, Scorpio, Pisces
.525 **According to time**
2 Diurnal
Aries, Gemini, Leo, Libra, Sagittarius, Aquarius
3 Nocturnal
Taurus, Cancer, Virgo, Scorpio, Capricornus, Pisces

133.53 Planets
.532 **Works on individual planets**
Uranus, Saturn, Jupiter, Mars, Sun, Asteroids (Juno, Pallas, Ceres, Vesta), Moon, Venus, Mercury
.533 **Aspects**
Conjunction, sectil, quartil, trine, opposition
.534 **Houses**
Life or person, riches, brethren or kindred, parents, children, servants and sickness, marriage, deth, religion, magistracy, frends, enemies
.535 **Special positions**
Joys, dragon's hed, dragon's tail, part of fortune, ascendent etc
.54 Horoscopes
Hyleg, Amareta etc
.55 Tables of declinations
.56 General applications
.562 **Nativities**
Clas nativities of special individual with biografy of that individual
.563 **Horary questions**
.58 Special applications
Medical astrology, etc. Divide like main clasification. For Biblical astrology see 220.81335
.6 Palmistry Chirology
.62 Chirognomy
Determination of type of intelligence from form of hand
.622 **Anatomy and physiology of hand**
Anatomy, texture, hairiness etc of hand. See also 611.976 Anatomy
.623 **Types of hands**
Elementary. Spatulate or activ. Conic or artistic. Square or useful. Knotty or philosofic. Pointed or psychic. Mixt
.63 Chirosofy
Study of comparativ value of manual formations
.64 Chiromancy
Divination by means of mounts, lines and other markings of hand and fingers
.642 **Mounts**
Jupiter, Saturn, Apollo or Sun, Mercury, Mars, Luna or Moon, Venus
.643 **Lines**
2 On palm
Hed line; life line; hart line; fate line or line of Saturn; line of Apollo, of Sun, of fortune or of brilliancy; line of Mercury, of helth, of liver, hepatic line or hepatica; girdle of Venus; line of Mars; ring of Solomon or Jupiter; line of intuition, of Moon or Luna; via lascivia; lines of affection; etc
3 On wrist
Racettes or 3 bracelets
4 On fingers
.644 **Signs**
2 On palm
Star, square, spot, circle, iland, triangle, cros, croix mystique, grille, signs of planets, quadrangle or table, percussion etc
3 On wrist
4 " fingers

133.7 Humbugs Quackery
Charlatans, impostors. Subdivide by type of humbug according to main divisions of 133; e.g. fraudulent magicians and sorcerers 133.74, fraudulent astrologists 133.75, fraudulent palmists 133.76, telepathic and clairvoyant frauds 133.78, fraudulent mediums 133.79. For humbugs not thus provided for use 133.77 divided like main clasification
.8 Telepathy Clairvoyance Clairaudience
See also 133.2 Hallucinations, 133.9 Spiritism, 134 Hypnotism, 135.3 Dreams
.82 Telepathy
Mind reading, thought transference, telepathic hallucinations
.8201 Theories
16 Miscellaneous theories
161 Psychic
162 Physical
.822 **Forms**
2 Physical
Divide like 152 Sense perceptions
3 Mental
4 Emotional
.823 **Reciprocal telepathy**
.824 **Collectiv "**
.83 Clairvoyance Clairaudience
Clas here material covering both subjects. See also 133.3 Divination
.8301 Theories
16 Miscellaneous theories
161 Psychic
Lucidity, telepathy etc
162 Physical
Ray theories, corpuscular theories, hyperesthesia etc
.832 **Cryptoscopic**
Vision of normally invisible hidden objects, or hearing of normally inaudible sounds, near at hand
.833 **Psychoscopic Psychometric**
Supernormal knowledge of distant, future or past events connected with objects at hand
2 In space
3 " time
.84 **Clairvoyance**
Divide like 133.83
.85 **Clairaudience**
Divide like 133.83

133.9 Spiritism Spiritualism
Psychism; communication with ded, with discarnate spirits or intelligences; mediums and mediumship; spiritistic or mediumistic fenomena with or without trance. For Bible and spiritualism see 220.81339, Christianity and spiritualism 289.9

.901 Theory
5 Theories derived from the pure sciences
Divide like 500
6 Miscellaneous theories
61 Subliminal self Subconscious mentation Mental dissociation Multiple personality Dissociation of personality Multiple consciousness
62 Telepathy Veridic hallucination Exteriorization of sensations or impressions
63 Clairvoyance Retrocognition
64 Hallucination and illusion
65 Spiritistic possession
.92 Objectiv or physical fenomena
.922 Telekinesis
Table-tipping, table-turning, typtology, raps, levitation, apports, transports, dematerialization of objects or 4th dimension, psychography or direct writing and drawing, etc
.923 Ectoplasms
Materialization of spirits, teleplasmy, bilocation, psychic or spirit photografy, fluidic body, emanation of substance, psychic rods, astral body, etc
.93 Subjectiv or mental fenomena
Telethesia or cryptesthesia. Sensory automatisms, ouija board and planchet messages, automatic writing and drawing, trance speaking, automatic speaking, intrapsychic conflict, interference, book tests, psychometry or pragmatic cryptesthesia, xenoglossis, monitions, premonitions, spiritistic messages, etc. See also 133.3 Divination, 133.8 Telepathy, Clairvoyance
.94 Psychic healing
See also 615.85 Cures

134 Hypnotism
Mesmerism, hypnosis, Braidism, electrobiology, neurohypnotism, neurypnology
.01 Theory
.015 Theories derived from the pure sciences
Divide like 500
.016 Miscellaneous theories
1 Psychologic
Mental, cerebral or functional dissociation; secondary, submerged, subconscious or subliminal self; suggestion; etc
2 Physical
Odic or odylic force, ectenic force, magnetic fluid, animal magnetism, biomagnetism etc
6 Physiologic
7 Pathologic
Hysteric susceptibility, neurosis etc
.1 General questions
Legal aspects etc

134.2 Induction
.22 Methods
.222 Domination
.223 Cooperation
.23 Means
.232 Physical: monotonous stimulation of sense organs, etc
.233 Mental: suggestion etc
.5 Effects
.52 Concurrent
Hightend suggestibility, rapport, lethargy, hypnotic or artificial catalepsy, hypnotic or artificial somnambulism, hypnotic trance, anesthesia, positiv and negativ hallucinations, hypnotic delusions, organic effects, telepathy, clairvoyance etc
.53 Post-hypnotic
Amnesia respecting events occurring during hypnosis, post-hypnotic suggestions, unconscious reckoning of time, etc
.6 Autohypnotism Autosuggestion
.8 Applications
Medical, psychotherapeutics etc. May be divided like main clasification

135 Sleep and wakefulness Dreams Somnambulism
.2 Sleep and wakefulness
State of being awake or waking. See also 612.8217 Physiology
.201 Theory
See also 612.82173 Physiology
5 Theories of sleep derived from the pure sciences
Divide like 500
6 Miscellaneous theories
63 Neurologic or histologic theories
64 Psychobiologic theories
Sleep as an instinct: hypnoidal state, muscular relaxation theory, psychoanalitic theory, vasomotor control theory, etc
66 Physiologic theories
663 Mechanic or circulatory theories
664 Chemic theories
67 Pathologic theories
Toxic and autotoxic theories
68 Erly and popular theories
.22 Conditions conduciv to sleep
.23 Fenomena normally accompanying sleep
See also 135.3 Dreams
.232 Physical
3 Cerebral circulation
See also 612.82174 Physiology
4 Chemic fenomena
See also 612.82175 Physiology
5 Positions during sleep
.233 Mental

135.24 Depth and length of sleep
Partial sleep, rediness to wake in response to definit stimuli. Prolongc. sleep. Hypnagogic state
.25 Results of sleep
.26 " " lack of sleep
.27 Abnormalities
See also 132.4 Catalepsy, 135.5 Somnambulism
.272 Excessiv tendency to sleep
.273 Insomnia or abnormal wakefulness
.274 Sleep of insane
.275 Drugs and sleep
.3 Dreams Visions
See also 612.82176 Physiology, 132.5 Ecstatics, 133.2 Hallucinations
.301 Theory
5 Theories derived from the pure sciences
Divide like 500, e. g. 135.30157 Biologic, recapitulation or atavistic theories
6 Miscellaneous theories
62 Free association theory
63 Illusion theory
64 Psychoanalitic theories
Expression of represt desires or fears
66 Physiologic theories
68 Erly and popular theories
Wandering of soul, divine origin, astrologic theories, various popular views, etc
.32 Clasification of dreams
.322 According to origin
2 Presentativ
Due to objectiv or physical stimuli
3 Representativ
Due to subjectiv or mental stimuli
.323 According to type
Premonitory, profetic, prodromic, collectiv, kinesthetic, recurrent, nightmares, night terrors, dreams of ded, etc
.33 Content of dreams
Imagery, past experiences, effect of special stimuli on content, hypnagogic hallucinations, etc
.34 Caracteristics or peculiarities
Speed, condensation, absurdity, sense of reality or unreality, effect of waking on dreams, etc
.35 Effects of dreams
As conservers of sleep, as influencers of waking life, etc

135.36 Dreams of special classes of persons
.362 Groups by age
2 Children
3 Aged
.363 Sensory defectivs
Blind, def etc. Divide like 152, including cripples etc under 135.3636
.364 Insane
.365 Drug addicts
.366 Criminals
.37 Day dreams Autistic thinking
See also 155.1 Fancy
.38 Interpretation of dreams
.382 Popular: oneiromancy, fortune telling by dreams, dream books, etc
See also 398.7 Folklore
.383 Scientific: psychoanalitic etc
.5 Somnambulism Sleep walking Noctambulism
Natural; for induced somnambulism see 134.52 Hypnotism; see also 132.152 Hysteric somnambulism
.51 Causes
.53 Degree of sensibility
.532 Responsibility
.55 Activities
.553 Degree of difficulty
2 Simple
3 Complicated
.554 Habitual
.555 Unusual
.56 Management Treatment
.6 Sleep talking
.61 Causes
.63 Caracter
.632 Coherent
.633 Incoherent
.634 Relation to waking interests
.635 Rememberd on waking

136–139 Differential psychology

General works on Differential psychology clas in 136

136 Genetic psychology Evolutional psychology Mental caracteristics
See also 131 Mental physiology, 575 Evolution

.1 **As influenced by sex Sex psychology**

.11 Sex and intellectual qualities
Divide like 150 Psychology. See also 376.2 Mental capacity of women

.12 Sex and mental derangements
Divide like 132 Mental derangements

.17 Sex and personality
Divide like 137 Personality

.2 **As influenced by physical and social surroundings**
Psychology of physical environment. Bionomic influences. Mental euthenics
See also 573.4 Natural history of man, 575.3 Evolution

.22 Sensory influences
May be further divided as under 152

.221 **Vision: color, light, darkness etc**

.222 **Hearing: sounds, noises, silence etc**

.223 **Smel: odors**

.224 **Taste**

.225 **Touch: rufness, smoothness etc**

.24 Topografic influences Landscape
Divide like 551.4 Surface features of earth

.25 Meteorologic influences
Climate, wether. Divide like 551.5 Meteorology

.26 Residential influences

.262 **Urban**

.263 **Suburban**

.264 **Rural**

.265 **Housing: rooms etc**

.27 Social influences; neighbors, associates
See also 301.15 Social psychology

.28 Clothing

.3 **As influenced by ancestry Mental heredity**
Influence of evolution. Mental eugenics. Biologic survivals, etc. See also 575.1 Evolution

.31 Inheritance of intellectual qualities
Divide like 150 Psychology

.32 Inheritance of mental deficiencies
Degeneracy, criminality, inferior families. Divide like 132 Mental derangements. See also 613.92 Hygiene

.33 Moral and spiritual qualities
See also 129.2 Origin of soul; 233.3 Doctrinal theology

.37 Inheritance of personality caractcristics
Divide like 137 Personality

136.4 **As influenced by race Racial caracteristics**
Race psychology, folk psychology, ethnic psychology, ethnopsychology, völkerpsychologie. See also 572 Ethnology

.41 Prehistoric or primitiv man Paleopsychology
Divided like 571 Prehistoric archeology

.411 **Paleolithic Erly stone age**

.412 **Neolithic Late stone age**

.413 **Bronze age**

.414 **Iron age**

.48 Races divided by language like 400

.49 " " " country like 930–999
National psychology, psychology of nations and peoples. Divide by country where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English etc. See also 913–919 Description, national caracteristics

.5 **As influenced by age**
For general works, also for adult period only; for erlier period see 136.7 Childstudy

.52 Maturity
Adult manhood, period of greatest ability, efficiency, mental virility

.53 Senescence
Period of mental decline, old age, 2d childhood

.6 **As influenced by physical structure and conditions**
Stature, posture, physical abnormalities, deformities etc

.7 **Childstudy Paidology, pedology Child psychology**
Influence of childhood, including adolescence

.702 Methods Mental tests

1 Laboratory

2 Home

.708 Observations Records Albums

.71 Body: structure, growth, care
Physical development of child; limited to development period. See also 136.3 Mental heredity, 371.7 School hygiene, 612.64 Embryology, 612.65 Growth, 613 Hygiene, 613.9 Heredity

.72 Mind Intellectual development of child
Divide like 150 Psychology. Limited to period of physical development. In a general library better clast in 130 and 150, with only references here

.73 Mental caracteristics
Groupt by influence like 136.1–.6

.735 **As influenced by age Nascent periods**

2 Babyhood, infancy Infant psychology

22 Pre-social period (1st year)

23 Imitating and socializing period (1–2)

3 Childhood

32 Period of individualization (3–5)

33 " " competitiv socialization (6–11)

4 Adolescence (12–25) Puberty, youth

136.74 Children's point of view What children think
Divided like main clasification; e. g.
.7417 Ethics .7479 Games, play
.742 Religion .748 Literature
.744 Language

.75 Delineation of children
Psychology of children from artists' and authors' point of view

.757 **In art** .758 **In literature**

.76 Abnormal children
Study of development. For methods of instruction see 371.9; for institutions see 362 Hospitals, asylums, 364 Reformatories

.761 **Physically defectiv**
1 Blind 5 Def-mutes
2 Def 55 Blind def-mutes
3 Blind-def 6 Crippld
4 Dum 7 Deformd

.762 **Mentally defectiv**
Divide like 132 Mental derangements; e. g. study of idiotic children 136.7622422

.763 **Morally defectiv** **Delinquents**

.764 **Wildings**
A clas of children who, having been lost or deserted, hav grown up away from the surroundings of children, alone or among animals. *Paidology* 1 :196 (July 1900)

.765 **Exceptionals** **Precocity**
Youthful prodigies. See also 151.1 Genius

.766 **Backward children** **Retardation**
See also 371.28 Education

.767 **Dependents**
Homeless children, a public charge, lacking ideas and associations of children in families. Abandond children, foundlings, orfans

.769 **Other abnormal classes**

.77 Boys The 'gang' Boy problem
Gamins

.775 Girl problem

.79 Childhood in various countries and times
Divide like 930–999

.791 **The child among uncivilized and semicivilized peoples**

137–139 **Caracter analisis** **Caracterology**
Clas in 137 general discussions not limited to a special sistem

137 Individual psychology Individuality Personality
Psychology of caracter. Idiosincrasies, mannerisms, personal equation, etc. See also 170 Ethics, 153.7 Consciousness

.3 **Constituent elements of personality** **Traits**
Psychogram

.31 Physical
Divide like 610 Medicin

.311 **Anatomic**
Divide like 611 Anatomy

.312 **Physiologic**
Divide like 612 Physiology

.313 **Helth**
Divide like 613 Hygiene

.316 **Pathologic**
Divide like 616 Diseases

.32 Moral and religious

.33 Social

.35 Mental
Divide like 150 Psychology

.37 Esthetic

.38 Special abilities or talents
Divide like main clasification; e. g.
137.3851 Mathematical ability
.3878 Musical talent
.389 Historical ability
See also 151.18 Classes of genius, 151.2238 Tests of talent

.4 **Types of personality** **Temperaments**
Biotypology

.42 Popular clasifications
Choleric, sanguin, mercuric, flegmatic, bromidic etc

.45 Scientific clasifications
Introverts, extroverts etc. Apathetic, affectiv, intellectual, temperate, voluntary etc. Visual, audil, motor etc. See also 154.45 Types of lerners

.5 **Cultivation of personality**

.7 **Grafology**
Caracter analisis by study of handwriting. See also 652 Writing

.72 Popular and divinatory grafology
Fortune telling by means of handwriting

.75 Scientific grafology

.8 **Tests of personality and caracter**
Tests of specific traits clas with those traits. See also 151.2 Mesurements

138 Physiognomy

Expression of mentality thru the body. Bodily signs revealing caracter. Caracter analisis by study of physical features. Effect of expression of emotions on facial and bodily features as index to caracter. Pathognomy. See also 157.2 Expression of emotions

.2 **Divinatory** **Astrologic**

.3 **Descriptiv**

.4 **Physiologic**

139 Phrenology Mental photografs, etc.

Cranioscopy, craniology (see also 573.7 Somatology), cerebral localization of faculties or functions. See also 131.2252, 612.8252 Psychomotiv centers, localizations; 152 Sense perceptions

.2 **Caracter analisis by cranial bumps and depressions**

.22 Feelings

.222 **Propensities: internal impulses inviting only to certain actions**

.223 **Sentiments: impulses prompting to emotion as wel as to action**

2 Lower: those common to man and the lower animals

3 Higher: those proper to man only

.23 Intellectual faculties

.232 **Perceptiv faculties**

.233 **Reflectiv "**

.3 **Anatomic aspects**

.4 **Physiologic aspects**

.5 **Psychologic "**

140 Philosofic sistems and doctrins

Heds 140–149.9 ar for discussion of sistems and doctrins as such. Philosofic works of authors of these various schools ar clast under 190, not here. From these heds refer in catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one sistem. See also 150.19 Psychologic sistems

141 Idealism Transcendentalism Spiritualism Panpsychism Subjectivism Individualism Personalism Voluntarism Romanticism

e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36. See also 184 Platonism, 186.4 Neoplatonism

142 Critical philosofy Criticism Neocriticism Kantism Neokantism Phenomenalism

e. g. Kant, see 193.2. See also 111.31 Phenomenalism in ontology

143 Intuitionalism Bergsonism

e. g. Reid, see 192.5; McCosh, see 191.5; Bergson, see 194.9. See also 149.3 Misticism, 156 Intuitiv faculty, 171.2 Ethics

144 Empiricism Pragmatism Humanism Instrumentalism Utilitarianism

e. g. Descartes, see 194.1; Bacon, see 192.1. See also 150.1943 Behaviorism

145 Sensationalism

e. g. Locke, see 192.2

146 Naturalism Materialism Positivism Atomism Mechanism Neomechanism Dynamism Energism Evolutionism Transformism Comtism

e. g. Hobbes, see 192.9; Comte, see 194.8. See also 111.62 Evolution in ontology, 149.2 Realism, 187 Epicureanism, 575 Evolution in biology

147 Pantheism Panentheism Monism Animism Vitalism Dualism Pluralism Parallelism Occasionalism

e. g. Spinoza, see 199.492 See also 130.16 Theories of mind-body relations, 212 Pantheism in natural theology, 189.1 Philosofic gnosticism, 273.1 Gnostic heresy

148 Eclecticism Liberalism Syncretism Dogmatism Traditionalism

e. g. Cousin, see 194.7

149 Other philosofic sistems

.1 **Nominalism Conceptualism**

.2 **Realism Neorealism Critical realism**

See also 146 Materialism

.3 **Misticism Occultism Esoteric philosofy Theosofy Anthroposofy**

See also 133 Occult sciences; 143 Intuitionalism, Bergsonism; 181.5 Sufism; 189.5 Mediëval misticism; 212 Theosofy in natural theology; 273.2 Mistic heresy

.4 **Associationism**

.5 **Optimism Meliorism**

See also 141 Voluntarism, 144 Pragmatism, 216 Good in natural theology

.6 **Pessimism**

e. g. Schopenhauer, see 193.7. See also 216 Evil, 233 Doctrin of man

.7 **Agnosticism Skepticism Rationalism Intellectualism Innatism Nativism Sophisticism**

See also 146 Positivism, 183 Greek sophisticism, 211 Natural theology, 273.8 Agnostic heresy

.8 **Nihilism Fatalism**

See also 214 Fatalism in natural theology

.9 Other sistems

150 Psychology General psychology

Mind. Mental functions and faculties. Philosofy of intellect. For other aspects of psychology see 130

An alternativ scheme of psychology incorporating all topics of 130 and 150 was publisht in ed. 13 under 159.9. Libraries and individuals who prefer to continue 159.9 arrangement may obtain it thru Forest Pres, Inc., Lake Placid Club, N. Y.

Works on psychology as applied to various subjects ar in general best clast with those subjects, but may be kept together under 150.13. Relations of psychology to other subjects may be exprest by using 150.001 divided like the whole classification; e.g. 150.0012 Psychology and Religion, 150.0015 Psicology and Science, etc. For interrelations of psychologic topics use 0005 divided like 150, e.g. Conception and perception 153.1000527

SUMMARY

151 **Intellect Capacity for knowing**
152 **Sensation Sense perceptions**
153 **Understanding Cognition Knowledge Comprehension**
154 **Memory and lerning Reproductiv power Mnemonic apprehension**
155 **Imagination Creativ power Imaginal apprehension**
156 **Intuitiv faculty or power Innate reason**
157 **Emotions Affections Sensibility**
158 **Conation and movement Instincts Appetites Motor functions**
159 **Wil Volition**

150.1 Philosofy Theories Laws

Metaphysical psychology. Rational psychology. See also 120 Metaphysics, 130.1 Theories of mind-body relations, 140 Philosofic sistems, 180–190 Individual philosofers

For other subdivisions and other form divisions see Table 2 following Relativ index

.13 Usefulness Value Importance Applications

May be divided like the whole classification; e.g. 150.1337 Educational psicology, 150.1361 Medical psicology, 150.13658 Psicology of business management, etc.

.18 Psychologic methods

General; for methods of experimental psychology see 150.725

.182 Subjectiv: introspection

Observation of one's self

.183 Objectiv

.184 Analitic

.185 Synthetic

.186 Descriptiv

.187 Explanatory

150.19 Psychologic sistems or schools
See also 131.34 Psychoanalisis, 140 Philosofic sistems
.192 Structural or existential psychologies
Structuralism
2 **Faculty psychology**
3 **Mentalism**
4 **Gestalt or configuration psychology**
5 **Psychosomatic organism, or mind-body performance psychology**
.193 Functional psychologies
2 **Dynamic psychology**
3 **Purposiv psychologies**
32 Hedonic
33 Hormic
.194 Reaction or response psychologies
2 **Endocrin psychology Endocrinism**
Glandular reaction psychology
3 **Behaviorism Anthroponomy**
4 **Reflexology**
5 **Dialectic materialism**
.7 **Study and teaching**
.72 Experimental psychology Experiment and reserch
See also 131 Physiologic psychology. For experiments in a specific field see that field
.722 Laboratories
.725 Methods
For psychologic methods in general see 150.18
2 **Subjectiv Introspection (reflection, analisis, retrospection)**
3 **Objectiv**
32 Reception methods Methods of impression
33 Reaction "
332 Methods of judgment
333 " " execution
334 " " expression
34 Qualitativ methods
35 Quantitativ " Statistical etc
See also 151.2 Mesurements, 152.8 Psychophysics, 310 Statistics

151 Intellect Capacity for knowing
Intelligence, talent, intellectual life, the normal mind
.1 **Genius**
Men of superior attainments, eminent or illustrious men, supermen etc
.12 Traits of genius
.122 **Physical**
Stature, pigmentation, deformity etc
.123 **Mental**
Precocity (see also 136.765 Childstudy), general intelligence, inventiv talent, inspiration, intuition, originality etc
.124 **Personality traits Temperament etc**
See also 137 Personality
.13 Genius as hereditary
Superior families, royalty, ethnic incongruity, miscegenation etc. See also 136.3 Mental heredity
.16 Genius as pathologic
.162 **Genius and insanity**
Manic-depressiv insanity, neurasthenia, secondary personality, *idiots savants* etc. See also 132.1 Insanity
.163 **Genius and disease**
Tuberculosis, gout, general il helth, etc
.164 **Genius and vice**
Alcoholism; use of opium and other drugs, etc
.165 **Genius and degeneracy**
.17 Environment and training of genius
Home life, position of family, occupation of parents, education etc. See also 136.2 Influence of physical surroundings, 371.95 Education
.18 Classes of genius
Divide like main clasification, e. g. Mathematical genius 151.1851. See also 137.38 Personality talents
.19 Geografic distribution of genius
Divide like 930–999
.2 **Mesurements Tests**
Mental tests, psychologic mesurements, mesurements or tests of innate mental capacity; including Intelligence tests. See also 152.8 Psychophysics, 371.26 Education mesurements and tests
.22 Clasification
.222 **Tests of general intelligence**
2 Individual
22 Verbal
Binet-Simon, Stanford revizion of Binet-Simon, Yerkes point scale, etc
23 Non-verbal
Healy picture completion test, army picture completion test, Pintner performance test, etc
3 Group
32 Verbal
Otis group tests, army alpha tests, national reserch tests, national intelligence tests, Thurstone omnibus test, etc
33 Non-verbal
Army beta, Dearborn group tests no. 2, Myers mental mesure, etc

151.223 **Tests of special capacity or aptitude**
Individual or group, verbal or non-verbal. Clas preferably under special capacity tested; e. g. Association tests 153.28

2 Tests of simpler processes
Reaction times, coordination, motor control, sensory capacity, simple discrimination tests, space perception, attention etc. Divide like 152 Sense perceptions

3 Tests of higher central processes
Association, lerning, retention, memory, reasoning etc. Divide like 153-155, e. g. 151.223332 Association, 151.22334 Memory, 151.22335 Imagination

4 Tests of emotion aspects
Divide like 157 Emotions

5 Tests of volition qualities
Divide like 159 Wil, volition

8 Tests of talent
Musical, mathematical etc. Divide like main clasification. See also 137.38 Personality traits, 151.18 Classes of genius

.23 Forms of tests
Cancelation, completion, formboard, genus-species, picture completion, inkblot, nonsense sillables, maze, substitution, crossing out, whole-part, true-false, mirror, etc. If form and purpose ar discust together clas with purpose; e.g. Army picture completion test 151.22223

.24 Apparatus

.25 Construction and administration of tests

.26 Interpretation of results Statistical methods, etc

.262 **Scoring**

.263 **Establishing norms**
Mental age, intelligence quotient (I.Q.) etc

.264 **Tabulating results**
Tables, curvs, grafs, histograms, psychograms, frequency polygons, etc

.265 **Correlations Correlational psychology**

1 General questions
Factor theory, etc

2 Among tests

3 " traits or abilities

.28 Applications
Divide like main clasification; e. g. Mental tests applied to industrial management 151.28658; but usually better clast with special subject, as 331.115 Mental tests for selecting workers

151.3 **Animal psychology Comparativ psychology Biopsychology Zoopsychology**
151.33 and 151.35 may be subdivided like 130 and 150, e. g. Insanity in animals 151.332, Tests of animal intelligence 151.3512. In general libraries better clast in 574.18 Irritability and movement in biology, 575.3 Biologic behavior, ecology; 591.18 Nervous functions and sensations in animals, 591.5 Habits and behavior, in animal ecology

.307 Study

2 Experiment

25 Experimental methods

258 Special methods

1 Labyrinths

2 Boxes with special devices

3 Animal training and lerning

4 Observations on imitation and insight

5 Observations on orientation

6 Method of salivation

7 " " associativ or conditiond refiex
Methods of Bechterev, Pavlov etc

8 Method of psychogalvanic reflex, Veraguth's method

9 Other

.4 **Plant behavior Organs and responses Phytopsychology**
In general libraries prefer 581.18 Irritability and movement in plants, 581.5 Plant behavior and ecology

152 Sensation Sense perceptions
Sense, sensible perception and representation, sense impressions, sensible knowledge. Relations of sense perceptions in general and of each sense in particular to other topics may be exprest by colon followd by number for specific topic; e. g. Esthetic relations of taste 152.4: 7 or, if preferd, use 0001 divided like main clasification, e. g. 152.400017 Esthetic relations of taste. See also physiology 612.84–.88

.01 Theory

.012 Relation of sensation and sense perception

2 Sensational theory (Sensation and perception identical)

3 Component theory (Sensation a component of perception)

4 Correlativ theory (Each a component of the other)

.015 Theories of sensation derived from the pure sciences
Divide like 500, e. g. 152.0153 Physical, mechanic; 152.0154 Chemic

.016 Miscellaneous theories

1 Metaphysical theories

15 Psychologic theories
Eccentric projection theory, etc

2 Deistic theories

6 Physiologic and psychophysical theories
Specific energy theory, theory of specific disposition of sense organs, etc

Passiv or receptiv faculty or functions
Sensational qualities or modalities

152.1 **Vision Visual sensations**
Divide like 612.84 Physiologic optics
.11 Fibrous tunics of eye
.111 **Cornea Conjunctiva Anterior chamber**
.115 **Sclera**
.12 Vascular tunics Iris Choroid Ciliary body
.121 **Iris accommodation Pupillary reflex**
See also 152.14 for general psychologic papers on accommodation
1 Pupillometers
.122 **Action of nervs and nerv centers on pupil**
.123 **Effects of light**
.124 **Action of chemic substances on iris Atropin**
.125 **Choroid Eye pigments**
.126 **Ocular circulation Intraocular pressure**
1 Ofthalmometers
.13 Optic nerv Retina
.131 **Physiologic morfology**
2 Ofthalmoscope
3 Retinal circulation
4 " purple
5 Physiologic morfology of retina
Blind spot, yellow spot
.132 **Irradiation Simultaneous induction**
.133 **Color sense Chromatic sensibility**
01 Theory
016 Miscellaneous theories of color sensation
3 3-color theory (Young-Helmholtz)
4 4-color theories
42 Color-contrast theory (Hering)
43 Gradation theory (Wundt)
44 Genetic theory (Ladd-Franklin)
47 Zone theories
472 Duplex or duplicity theory (von Kries)
473 Theory of indirect values (Müller)
1 Color sight
Power to distinguish colors
2 Sensitivness to color Color preferences
4 Mixture of colors
5 Contrast " "
501 Theory
6 Miscellaneous theories of color contrast
61 Psychologic theory
Deception of judgment (Helmholtz)
66 Physiologic theory (Hering)
52 Simultaneous contrast
53 Successiv "

152.134 **Entoptic fenomena**
Purkinje's figures or images, Sanson's images
.135 **Persistence of retinal impressions**
2 After images or after sensations Successiv images
22 Positiv
23 Negativ or complementary
.136 **Field of vision Visual acuteness and sensibility**
1 Photometry Photometric technic
2 Field of vision
22 Direct vision
23 Indirect vision Perimetry
3 Visual acuteness and sensibility
32 Retinal adaptation and fatigue
33 Twilight vision Purkinje fenomenon Purkinje spectrum Sensibility to contrast
.137 **Conduction in brain Perception**
1 Histology of fibrillae Center of sight
2 Optic perceptions Localization of image in space
21 Binocular and monocular perception
22 Stereoscopy Binocular fusion and rivalry Pseudoscopic vision
23 Perception of distance, size and form
Perception of differences in hight of surface
2301 Theory
16 Miscellaneous theories of visual distance
163 Theory of identical points
164 " " projection
165 " " distance as an optic sensation
232 **Kinesthetic eye sensations**
2 Accommodation strains
3 Convergence "
233 **Parallax**
2 Binocular parallax
3 Parallax due to hed movements

152.137234 **Associativ aids**
1 Apparent size
2 " brightness
3 Apparent rapidity of movement
4 Linear perspectiv
5 Haze and other atmosferic effects
6 Lights and shadows
7 Relations among objects in field of vision
8 Cooperation of other senses
9 Other

3 Impression of color suggested by sound
Auditus coloratus, colord audition. See also 152.77 Synesthesia

4 Optic illusions
See also 152.73 Normal illusions .

41 Primary illusions
412 **Illusions of movement**
413 **Proofreaders illusion**
414 **Double images**
415 **Geometric illusions**
Of distance, size, direction, form etc
01 Theories of geometric illusions
016 Miscellaneous theories
3 Eye-movement theory
4 Perspectiv "
5 Dynamic theory
7 Association or confusion theory

2 Reversible perspectiv
3 Illusions of extent
Müller-Lyer illusion, etc
4 Illusions of direction and angles; confluxion and contrast
Poggendorf, Zöllner, twisted cord, etc illusions
5 Illusions of form
6 " " area
Apparent size of planets at horizon, etc

42 Secondary illusions
43 Mixt illusions
5 Observations on those born blind
8 Degenerations of optic nerv and fibrillae

.14 Refractory apparatus Ocular refraction Dioptrics
See also 152.121 Iris accommodation
.141 **Cristallin lens**
.144 **Aqueous humor**
.147 **Vitreous** "

152.15 Functional disorders or pathology of sight
Blindness etc. See also 617.75 Disorders of vision from medical viewpoint
.151 **Myopia**
.152 **Hypermetropia**
.153 **Astigmatism**
.154 **Presbyopia**
.155 **Daltonism Color blindness**
See also 152.1331 Color sight
.156 **Hemeralopia**

.16 Movements of eye
.162 **Binocular vision Convergence**
For perception see 152.13721 Binocular and monocular perception
.163 **Action of 3d cranial or oculomoto nerv**
.164 " " 4th " " trochlear "
.166 " " 6th " " abducent "
.168 **Strabismus Diplopia**

.17 Palpebral and lacrimal apparatus
.18 Tests of visual perception

.2 **Hearing Auditory sensations**
Divide like 612.85 Physiologic acoustics
.201 Theory
2 Clasification of sounds
22 Tones
23 Vocables
24 Noises
6 Miscellaneous theories of hearing
61 Psychologic theories
66 Physiologic "
661 Resonance or simpathetic vibration theory (Helmholtz)
662 Telefone theory (Rutherford, Lipps)
663 Standing wave theory (Ewald, Lehmann)
664 Advancing " " (Hurst)
665 Propeld " " (ter Kuile)
666 Displacement " (Meyer)

.21 External ear: functions
.24 Middle ear
.25 **Tympanic membrane or drumhed Tympanum**
.26 **Eustachian tube**
.27 **Bones**
.28 Internal ear
.281 **Conduction of sound in internal ear**
.282 **Utricle Saccule**
.283 **Semicircular canals**
.284 **Cochlea Corti's organ or fibers Spiral orgar Basilar membrane**
.285 **Acoustic nerv**
.286 **Endolymf Perilymf**

152.287 **Acoustic perception Conduction of acoustic excitation in brain**

1 Auditory acuteness

12 Tonal gaps and ilands

2 Auditory center in brain

See also 131.22552 Sensory functions of convolutions

3 Subjectiv sensations

4 Musical psychology

Distinction of tones and quality or tone color (timbre). See also 781.1 Psychology of music

42 Tonal caracteristics

422 **Pitch**

423 **Loudness, strength or volume**

424 **Caracter, quality, timbre, tone color or brightness**

Clang-tint

43 Analisis of tones

432 **Simple tones**

433 **Compound tones or natural harmonics Clang**

2 Overtones

3 Partial tones

434 **Combination or Tartini's tones**

1 1st order

12 Difference or differential tone

13 Summational tone

2 Higher orders

44 Consonance and dissonance: intervals

441 **Theories of consonance and dissonance**

2 Theory of beats (Helmholtz)

3 " " tonal fusion (Stumpf)

4 Genetic theory (Moore)

45 Melody and rithm

46 Sensitivness to tone Tone preferences

5 Binaural and monaural hearing

51 Localization of sound in space Estimation and effect of distance

512 **Interaural differences of sound intensity**

513 **Complexity of pitches**

514 **Movements of hed**

6 Sensibility of living beings to sound and vibrations

Otocysts

7 Pathology Defness etc

8 Tests of auditory perception

.288 **Auditory reflexes**

152.3–.4 Chemic senses

152.3 **Smel Olfactory sensations Odor**

See also 612.86 Smel, in physiology

.31 Organs of smel

See also Anatomy 611.83115, 611.86

.37 Olfactory perception Conduction in brain

.371 **Olfactory acuteness**

.372 **" center in brain**

See also 131.22553 Sensory functions of convolutions, 612.82556 Seat of smel, in physiology

.373 **Subjectiv odor sensations**

.374 **Fusion of odors**

.377 **Pathology**

.378 **Tests of olfactory perception**

.4 **Taste Gustatory sensations**

See also 612.87 Taste, in physiology

.41 Organs of taste

.413 **Taste buds and papillae**

.415 **Function of lingual nerv**

See also 612.8195 Special nervs, in physiology

.417 **Function of chorda tympani**

See also 612.81977 Special nervs, in physiology

.419 **Function of glossopharyngeal nerv**

See also 612.8199 Special nervs, in physiology

.47 Gustatory perception Conduction in brain

.471 **Gustatory acuteness**

.472 **" center in brain**

See also 131.22554 Sensory functions of convolutions, also in physiology 612.82557

.473 **Subjectiv taste sensations**

.474 **Fusion of tastes**

.475 **Contrast of tastes**

2 Simultaneous

3 Successiv

.476 **Relations of taste and smel**

.477 **Pathology**

.478 **Tests of gustatory perception**

152.5–.6 Somesthetic senses or qualities

.5 **Touch Tactil sensations Cutaneous senses**

Haptic sensations

.51 Anatomy and physiology of tactil organs

See also 611.88 Anatomy, 612.88 Physiology

.57 Tactil perceptions Conduction in brain

.571 **Tactil acuteness**

Epicritic and protopathic sensibility

.572 **Tactil center in brain**

See also 131.22555 Sensory functions of convolutions, also in physiology 612.82559

152.573 **Types of tactil perceptions**
2 Temperature
Hot and cold spots; indifference, zero or adaptationpoint; paradoxic cold
3 Pressure
Including all related fenomena; e. g. tickiing, itching, contact, resistance etc
4 Pain
.574 **Fusions of tactil sensations**
Giving rize to sensations of rufness, smoothness, dryness, wetness etc
.577 **Pathology**
.578 **Tests of touch perception** **Esthesiometry**
Divide like 152.573

.6 **Muscular, articular and organic senses Equilibrium**
.61 Anatomy and physiology
.67 Muscular, articular and organic perceptions Conduction in brain
.671 **Acuteness**
.672 **Brain centers**
See also 131.22556 Sensory functions of convolutions, also in physiology 612.82558
.673 **Types**
5 Muscular and articular senses Power sense
Proprioceptiv senses, tendon and joint senses
52 Kinesthetic sensations; movement, activity
521 **Weight**
522 **Muscular and articular movement**
523 **Effort and power**
524 **Tendinous strain**
Shock
525 **Innervation**
526 **Exteriority**
527 **Stereognostic sense**
528 **Electric sense**
529 **Other**
53 Sensations of position or relativ attitude of limbs, joints and muscles
6 Equilibrium Static sense, balance, labyrinthic sense
61 Sense of direction and orientation; general position
62 Seasickness
63 Vertigo Dizziness Giddiness Nystagmus Past pointing
9 Organic or visceral senses Internal touch
Feelings of helth, energy, hunger, thirst, fatigue etc. See also 157 Feelings. May be divided like 612, according to organ experiencing sensation; e. g. 152.673932 Stomach sensations
.677 **Pathology**
.678 **Tests of muscular, articular and organic perceptions**
Divide like 152.673

152.7 **Perception Perceptual apprehension Primary incorporations**
.72 Elements of perception
.722 **Sense presentation**
.723 **Attention**
1 Theories as to nature of attention
12 Pure mental activity
13 Emotion or feeling
14 Change in clearness of ideas
15 Muscular attraction and adaptation
2 Conditions of selection
22 Objectiv
222 **Vividness or intensity** 224 **Suddenness** 226 **Definit form**
223 **Duration** 225 **Novelty** 227 **Color**
Repetition
23 Subjectiv
232 **Mental attitude** 234 **Expectancy** 236 **Psychic fringe**
233 **Interest** 235 **Purpose**
3 Varieties
32 As to origin
322 **Innate or instinctiv** **Primary** **Natural**
323 **Acquired or derived** **Secondary** **Artificial**
33 As to stimuli
332 **Sensorial** **Objectiv** **Explicit**
333 **Intellectual** **Subjectiv** **Implicit**
34 As to development
342 **Involuntary** **Passiv** **Immediate**
343 **Voluntary** **Activ**
See also 159 Wil
2 Cause theory
3 Effect "
344 **Spontaneous or nonvoluntary**
4 Physical reactions
41 Vasomotor, circulatory
42 Respiratory
43 Bodily attitude
5 Clearness and strength of attention
52 Clearness
522 **Focal** 523 **Marginal**
53 Strength or degree
532 **Concentrated** 533 **Divided**
6 Scope and duration
62 Scope, range or span
63 Duration and fluctuation
632 **Sustaind** 633 **Shifting**
7 Acquired inattention and pathology of attention
8 Mesurements of attention

152.724 **Apperception**
.725 **Preperception**
See also 155.2 Imagery
.73 Errors of perception Normal illusions
For abnormal illusions and hallucinations see 132.1 Insanity, 133.2 Hallucinations, illusions. See also 152.1374 Optic illusions. Divide like 152.2–.6; e. g. Illusions of touch, Aristotle's illusion 152.735, Illusions of missing limbs 152.736
.75 Special classes of perceptions
.752 **Perception of space and extent Localization of objects**
See also 114 Space (metaphysics)
01 General theory
016 Miscellaneous theories of space perception
3 **Nativistic theories**
32 Psychic stimulus theories
322 Theory of local signs (Lotze)
323 " " circles of sensitivity (Weber)
324 Kantian theory of intuitiv space
33 Extensity theories (James etc)
4 **Empiric and genetic theories**
42 Associationist theories
43 Creativ synthesis, fusion, 'mental chemistry' or complex local signs theories (Herbart, Wundt etc)
44 Unconscious inference theory (Helmholtz)
45 Continuous differences " (Lipps)
2 Elements of space perception
22 Distance
23 Size
24 Form
25 Direction
3 Sensory factors in space perception
Divide like 152.1–.6. See also 152.13723 Binocular perception of distance, size and form, 152.28751 Binaural localization of sound in space
7 Pathology
8 Mesurements of space perception
.753 **Perception of time (duration) and rithm**
See also 115 Time (metaphysics)
7 Pathology
8 Mesurements of time and rithm perception
.754 **Perception of movement**
See also 116 Motion (metaphysics)
7 Pathology
8 Mesurements of movement perception

152.77 Synesthesia
See also 152.1373 Colord audition, 612.887 Synesthesia (physiology)
.7701 General theory
15 Theories of synesthesia derived from the pure sciences
Divide like 500, e. g. 152.770157 Biologic, atavistic or ontogenetic theory
16 Miscellaneous theories
161 Psychologic theories
2 Affectiv association theory
3 Conditiond reflex "
166 Physiologic theories
2 Anastomosis theory
3 Nervous irradiation theory
.771 **Visual Synopsie Photisms**
2 Chromesthesia Pseudochromesthesia Chromisms
See also 152.1373 Colord audition
21 Colors accompanying visual perceptions of lines, forms, figures, letters etc
23 Colord smels
24 " tastes
25 " tactil sensations
252 **Temperature 253 Pressure 254 Pain**
26 Colord muscular, articular and organic sensations
3 Figured or geometric audition: geometric forms accompanying sounds of words
4 Number forms
.772 **Auditory Phonisms**
1 Of visual origin
3 " olfactory "
4 " gustatory "
5 " tactil "
52 Temperature
53 Pressure
54 Pain
6 Of muscular or organic origin
.773 **Olfactory**
Divide like 152.1–.6 according to origin
.774 **Gustatory**
Divide like 152.1–.6 according to origin

152.775 **Tactil**
2 Temperature sensations accompanying other sensations
Divide like 152.1–.6 according to origin
3 Pressure sensations accompanying other sensations
Divide like 152.1–.6 according to origin
4 Pain sensations accompanying other sensations
Divide like 152.1–.6 according to origin
.776 **Muscular, articular and organic**
Divide like 152.1–.6 according to origin
.777 **Personifications or dramatizations of ideas, letters, digits or words**

.8 **Psychophysics Psychometry Quantitativ psychology**
See also 151.2 Mesurements
.82 Psychophysics
.821 **Laws**
2 Threshold law
3 Weber's law
31 Interpretations of Weber's law
312 **Physiologic 313 Psychophysical 314 Psychologic**
4 Fechner's laws
42 Logarithmic law
43 Parallel law
5 Breton's (Fullerton and Cattell's) parabolic law
6 Merkel's law
.822 **Principal formulas**
Including variations and interpretations
2 Fundamental formula
3 Mesurement "
4 Difference mesurement formula
.823 **Methods**
2 Gradation methods
22 Method of least or just noticeable differences or minimal changes
23 Method of mean gradation or equal sense distances
3 Error methods
32 Method of average error
33 " " right and wrong (or true and false) cases or constant stimuli
4 Method of equivalents

152.824 **Apparatus**
Special apparatus adapted to study of each sense, divided like 152.1–.6
1 Optic: photoesthesimeters, tachistoscopes etc
2 Acoustic: acousimeters etc
3 Olfactory: olfactometers etc
4 Gustatory
5 Haptic or tactil
52 Temperature: thermesthesimeters etc
53 Pressure: esthesimeters, weights etc
54 Pain: algometers, algesimeters etc
6 Muscular, articular and organic
.825 **General classes of mesurements**
2 Stimulus threshold
22 Lower, minimum sensitivity or threshold of consciousness, limen
23 Upper, maximum sensitivity
24 Range of sensitivity
3 Difference threshold Difference sensitivity
32 Just noticeable differences Units of sensation
33 " not noticeable "
34 More than just noticeable differences
.826 **Special fields of mesurement**
May be divided like 152–159, if one wishes to keep together, e. g. Esthesiometry, mesurement of touch perception, 152.82625; but in general use better last with special field, e. g. 152.578 Tests of touch perception
.828 **Applications**
May be divided like main clasification; e. g. 152.828132 Sensitivity of the insane

.83 Psychometry Psychochronometry Mental chronometry
.8309 History
902 Astronomic period: personal equation
903 Physiologic period: velocity of nervous impulse
904 Psychophysical period: duration of simple mental processes
2 Period of mental tests
See also 151.2
905 Psychologic period: analisis of action consciousness
.832 **Apparatus**
2 Mesuring and recording instruments
Chronoscopes, chronometers, stop watches, chronografs, psychodometers etc
3 Control instruments
Gravity chronometers, control pendulums, control hammers, etc
4 Stimulators
Special instruments adapted to stimulation of each sense organ
Divide like 152.1–.6
5 Reaction instruments
Reaction keys, etc

152.833 **Methods**
- 2 Observation methods
- 3 Recording "
  - 32 Visual
  - 33 Mechanic Chronografic
- 4 Statistical

.834 **Classes of reaction time**
- 2 Physiologic or reflex reaction time
- 3 Psychophysical reaction time
  - 32 Simple
    - 322 **Sensorial**
    - 323 **Muscular or motor**
    - 324 **Psychologic, central or reduced**
  - 33 Compound or complex
    - 332 **Discernment, cognition or perception time**
    - 333 **Discrimination time**
    - 334 **Choice time**
    - 335 **Association time**
      - 2 Free
      - 3 Controld or constraind
        - 32 Partly
        - 33 Wholly

.835 **Elements of reaction time**
- 2 Excitation of sensory nerv
- 3 Centripetal conduction
  - 32 In sensory nerv
  - 33 " spinal cord
- 4 Transformation of sensory into motor impulse
- 5 Centrifugal conduction
  - 52 In spinal cord
  - 53 " motor nerv
- 6 Releasing of muscular movement

152.836 **Conditions affecting reaction time**
- 2 Objectiv
  - 22 Sense organ stimulated
  - 23 Caracter of stimulus
    - 232 **Intensity** 233 **Quality** 234 **Duration**
  - 24 Caracter of reaction
    - 242 **Complexity** 244 **Accuracy**
    - 243 **Rapidity** 245 **Extent**
  - 25 Caracter of instructions
  - 26 Environmental influences
    - 262 **Physical: temperature, atmosferic pressure, etc**
    - 263 **Social**
- 3 Subjectiv
  - 31 Age
  - 32 Sex
  - 33 General attitude
  - 34 Concentration and expectation
  - 35 Practis
  - 36 Helth
  - 37 Fatigue
  - 38 Drugs
  - 39 Other

.837 **Special fields of mesurement**

May be divided like 152–159, if one wishes to keep together, e. g. 152.83724 Degree of taste, 152.837434 Mesure of recognition; but in general use better clast with special field, e. g. Degree of taste 152.478, Mesure of recognition 154.834

.838 **Applications**

Divide like main clasification; e. g.

152.838132 Reaction time of insane
.83852 " " in astronomy
See also 522.97 Personal equation, astronomy

153 Understanding Cognition Knowledge Comprehension

See also 121 Theory of knowledge, 126 Consciousness, 131 Physiologic psychology

Activ or thinking faculty or functions Intellection

Ideation. Comprehensiv function or thinking about

.1 **Conception Concept or notion, idea, meaning**

Relations to other psychologic topics may be exprest by using colon to indicate relation, e. g.

153.1 :152.7 Conception and perception
153.1 :153.4 " " reflection
153.1 :155 " " imagination

or, if preferd, use 153.10005 divided like 150, e. g. Conception and perception 153.1000527

.101 General theory
6 Miscellaneous theories of conception
62 Nominalist
63 Conceptualist
64 Sensationist
66 Physiologic
662 Kinesthetic or ideomotor
.11 Origin
.112 **Innate**
.113 **Acquired**
.12 Forms
.122 **Simple**
.123 **Complex**
.13 Types
.132 **Of individuals or particulars, concrete**
.133 **" generals or universals, abstract**
.14 Growth or development
.17 Pathology
.18 Mesurements

153.2 **Association**

Association of ideas. Psychologic connections. Secondary and mixt incorporations. See also 154 Memory and lerning

.21 Laws of association
.211 **Primary**
2 Contiguity or continuity in time and space
External association
22 Simultaneous
23 Successiv
3 Similarity
4 Contrast
.212 **Secondary**
2 Primacy
3 Frequency or repetition
4 Recency
5 Vividness
6 Emotional congruity
7 Interest
8 Rithm
9 Other
.22 Physiologic mechanism
.23 Types
.232 **Redintegrativ, compound or impartial**
Redintegration
.233 **Ordinary or mixt**
.234 **Similar**
.235 **Dynamic**
.236 **Serial**
.27 Pathology
.28 Mesurements
.3 **Abstraction Selection Comparison**
.301 General theory of abstraction
6 Miscellaneous theories
62 Generic image theories
63 Comparison or distinction of reason theories
Law of dissociation by varying concomitants
64 Attention and apperception theories
65 Motor theories
.32 Determining factors
.322 **Formulation of problem**
.323 **Fixt trend of reproductiv tendencies**
.324 **Effectivness or vividness of stimulus**

153.33 Types
.332 **Discrimination of differences**
.333 **Recognition of similarities**
.34 Products
.342 **Topics: aspect topics**
.343 **Exemplifying images, simbols, recepts**
.344 **Classes or concepts: generalizing topics**
.37 Pathology
.38 Mesurements
.4 Reflection
Indicatory transfers, flashes, attitudes, postures, awareness, cortical set (All these ar terms used to describe what goes on during process of reflection). See also 153.72 Self-consciousness
.47 Pathology
.48 Mesurements
.5 Judgment
.53 Clasification Types
.532 **As to form**
.2 Existential
3 Attributiv or predicativ
32 Hypothetic or conditional
33 Categoric
34 Disjunctiv
.533 **As to method**
2 Analitic
3 Synthetic
.534 **As to nature of response**
2 Implicit
3 Orientiv
4 Predictiv
.54 Formation of judgments
.542 **Immediate apprehension**
.543 **Communication**
.544 **Reasoning or thought**
.57 Pathology
.58 Mesurements

153.6 Reasoning Induction and deduction Inference
Elaborativ function or thinking out. Problem solving. See also 160 Logic
.62 Elements
.622 **Problem or task**
.623 **Elaboration**
.624 **Solution**
.63 Types
.632 **Elementary**
Reasoning from 2 particulars to a 3d particular
.633 **Inductiv**
.634 **Deductiv**
.64 Processes
.642 **Mental**
.643 **Physical**
.65 Use of simbols or secondary meanings
.652 **Thought and language Imageless thought**
.66 Products or results
.662 **Knowledge of reality**
.663 **Beliefs**
2 Faith
3 Dout
4 Disbelief
.664 **Values Worth**
.665 **Meanings**
.67 Pathology
.68 Mesurements
.7 Consciousness Personality
Personal identity. See also 126 Metaphysics, 137 Mind and body, 233.6 Doctrin
.72 Development or emergence of personality
Self consciousness. The ego. Self and not-self, self and body, inner self, self as person, self and society. See also 132.1523 Dissociation of personality, depersonalization, dual and multiple personality
.77 Pathology
.78 Mesurements

153.8 **Unconsciousness Depth psychology**
Psychology of the unconscious, coconscious, foreconscious, subconscious. Subliminal consciousness, automatisms. See also 127 Metaphysics, 130.16322 Mind-body relations, 133.32 Divination, 133.93 Spiritism, 158.4 Automatic movements

.82 Sistems or schools of depth psychology
See also 131.34 Psychoanalisis

.822 **Psychologic school**
Prince, Rivers, McDougall etc

.87 Pathology

.88 Mesurements

154 Memory and lerning Reproductiv power Mnemonic apprehension
See also 155 Imagination, 132.8 Mnemonic derangements

.01 General theory

.015 Theories of memory based on the pure sciences
Divide like 500, e. g. 154.0157 Biologic theories

.016 Miscellaneous theories
1 Metaphysical theories
3 Representation "
32 Image theories
33 Assimilation theories
4 Presentation theories
42 Physical or physiologic theories
43 Objectiv "
5 Subjectiv or function theories
52 Psychophysical function theories
53 Psychic " "
532 Mental habit theories
533 " disposition theories
534 Motor and emotion "
2 Synergy theories
3 Attention "
4 Self-recognition theories
5 Psychoanalitic "

.07 Study of memory

.072 Experimental study
5 Methods
58 Special methods
581 Lerning method
582 Saving "
583 Method of paird associates, of hits and misses or scoring method
584 Memory span method
585 Method of retaind members
586 Reproduction
2 By description
4 " drawing
587 Identification or recognition
588 Comparison and selection
589 Other

.078 Materials or apparatus
Nonsense sillables, objects etc

154.1 **Mnemonics Methods of aiding memory**
Mnemotechny: memory training, mnemonic devices, memory sistems, mnemonic technic

.12 Ingenious or artificial methods
.122 **Metric**
.123 **Topical or local**
.124 **Pictorial**
.125 **Figure-alfabet**
.126 **Progressiv suggestion or intermediate associations**

.13 Mechanic or repetition methods

.14 Judicious or logical methods

.2 **Types of memory**

.22 Sensimaginal Memory images
.221 **Visual**
.222 **Auditory**
.223 **Olfactory**
.224 **Gustatory**
.225 **Tactil**
.226 **Motor**

.23 Organic

.24 Affectiv or emotional

.25 Abstract

.3 **Memory processes**

.32 Retention Retentivness
.321 **Basis of retention**
2 Mental state
3 Physiologic or neural trace; disposition

.33 Reproduction and representation Recall
Revival
Remembering
.331 **Conditions or causes**
2 Perseveration
3 Interest
4 Association Suggestion
.333 **Types**
2 Free or spontaneous
3 Determind or voluntary
Recollection, reminiscence
32 Empiric
33 Logical

154.334 **Kinds of stimuli**
2 Perceptions
3 Images
4 Ideas
5 Emotional complexes
.335 **Degrees of recall**
2 Partial or selectiv
3 Complete
.336 **Interferences in recall**
34 Recognition or identification
.342 **Factors in recognition**
2 Mental associations
22 Past reference
23 Localization
24 Personal ownership
3 Affectiv associations or feelings
32 Of familiarity or unfamiliarity
33 " correctness or incorrectness
34 " certainty or dout
4 Kinesthetic or motor associations
.343 **Types of recognition**
2 Explicit or perceptual, direct or immediate
3 Implicit or ideational, indirect or mediate
.344 **Forms of recognition**
1 Individual identity
2 Material "
3 Imaginal recognition
4 Clas "
5 Formal or logical recognition
6 Self recognition
7 Relativ recognition
8 Absolute "
9 Other

154.4 **Lerning or acquisition**
See also 158.433 Motor lerning
.42 Methods
.423 **Mechanic**
2 Practis and repetition
3 Trial and error
4 Imitation
.424 **Logical**
2 Association
3 Discrimination
.43 Types
.432 **Memorizing or rote lerning**
2 By parts
3 " wholes
.44 Aids to lerning
.441 **General questions**
.442 **Attention and concentration**
.443 **Interest**
.444 **Wil to lern**
.445 **Rithmic presentation**
.446 **Rest periods**
.447 **Number and frequency of repetitions**
.448 **Recitation**
.449 **Other**
.45 Types of lerners
May be further subdivided like 152.1-.6. See also 137.45 Tvpes of personality
.451 **Visual**
.452 **Auditory**
.455 **Tactil**
.456 **Motor**
.46 Rate and curv of lerning
.462 **Effect of rate of lerning on memory**
.47 Transference of lerning
Cros education

154.5 **Forgetting and lapses of memory**
See also 132.8 Mnemonic derangements
.51 Causes
.512 **Inhibition**
.513 **Selection**
.514 **Weak associations**
.515 " **or disturbd neural paths and centers**
.53 Rate and curv of forgetting
.54 Degree of forgetting
.55 Value " "
.7 **Pathology of special memory processes**
See also 132.8 Mnemonic derangements
.73 Pathology of memory processes Divide like 154.3
.74 " " lerning "
.75 " " forgetting "
.8 **Mesurements of memory**
Divide like 154.7

155 Imagination Creativ power Imaginal apprehension
See also 154 Memory
.1 **Fancy Imaging power Free or uncontrold imagination**
See also 135.37 Day dreams
.2 **Imagery**
See also 152.725 Preperception
.22 Physiology of imagery
.23 Types " " Sensimaginal qualities
155.231–.236 may be divided like 152.1–.6
.237 **Verbal** .238 **Eidetic**
.24 Images and sense perceptions compared
.25 Localization of images
.3 **Forms of imagination**
.32 Reproductiv or representativ
See also 154 Memory
.33 Productiv or anticipatory
.332 **Constructiv** .333 **Creativ**
.4 **Limits of imaginativ process**
.6 **Applications**
Divide like main clasification, e. g.
155.65 Imagination in science
155.67 " " art
155.68 " " literature
.7 **Pathology**
.8 **Mesurements**

156 Intuitiv faculty or power Innate reason
Implicit apperception, innate ideas, insight, intuition. See also 143 Intuitionalism, 153.6 Reasoning, 153.8 Unconsciousness
.2 **Intellectual or speculativ intuition**
See also 151.1 Genius
.22 Direct cognition
.222 **Of the self (internal sense)**
.223 " " **not-self (common sense)**
.23 Direct judgment
.3 **Sense intuition**
.32 Direct perception
.33 " apprehension
.4 **Motor intuition**
.7 **Pathology**
.8 **Mesurements**

EXECUTIV FUNCTIONS

157 Emotions Affections Sensibility
Feelings. See also 152.6739 Organic senses. For relations to other psychologic topics use colon to indicate relation, e. g. Emotion and memory 157:154, Emotion and instinct 157:158 or, if preferd, use 157.0005 divided like 150, e. g. Emotion and memory 157.00054
.01 General theory
.016 Miscellaneous theories of sensibility and emotions
2 Intellectualistic theories
Associationist etc
3 Psychomechanic theories
Dynamic, struggle among mental processes, etc
4 Psychophysical theories
42 Biogenetic
Affectiv aspect of instincts, etc
43 Identified with desire
6 Physiologic theories
62 Pathologic
63 Sensationist
632 James-Lange, peripheral or vasomotor
633 Identified with organic sense
64 Cerebral or central
Resistance in neural processes, etc

157.07 Study of feelings and emotions
.072 Experimental study
5 Methods
53 Objectiv methods
532 Method of impression
533 " " expression
58 Special methods
582 Genetic method
583 Questioning method
584 Grafic "
585 Association "
586 Psychogalvanic "
.1 Emotional states
.12 Sentiments
e. g. Psychology of the beautiful, esthetics; better in 701.17
.13 Moods
.2 Expression of emotions
See also 138 Physiognomy, 158 Instincts
.21 Principles of expression
.212 Law of utility or serviceable associated actions
.213 " " analogous feeling stimuli
.214 " " antithesis
.215 " " direct nervous discharge
.22 Forms of expression
.222 Glandular
2 External
3 Internal
.223 Vascular
2 Circulatory
3 Respiratory
.224 Muscular
Laughter, gesture etc
.23 Recognition of emotions

157.3 Varieties of emotions
As no authoritativ scheme for clasifying emotions has yet been devized the individual emotions may be arranged alfabeticly
.4 Passions or uncontrold emotions
.5 Properties of sensibility
.52 Affectiv quality or tone, feeling tone
.521 One-dimensional theory
Plesure-pain (hedonic tone), plesant-unplesant, agreeable-disagreeable or positiv-negativ
.522 Bidimensional theory
2 Plesure-pain (hedonic tone)
3 Restlessness-quiescence
.523 Tridimensional theory
2 Plesure-pain (hedonic tone)
3 Excitement-depression (calm)
4 Strain-relaxation or tension-relief
.53 Strength, intensity or vividness
.54 Rithm and duration
.55 Content
.7 Pathology
.8 Mesurements

158 Conation and movement Instincts Appetites Motor functions
Action. Drives
.1 Conation and feeling
.12 Hedonic view: feeling precedes conation
.13 Hormic " : conation " feeling
.2 Physiology of movement
See also 612.821 Physiology
.22 Organs
See also 612.7 Physiology
.23 Functional laws
.232 Dynamogenesis
2 Law of diffusion
3 " " inhibition
4 " " specific motricity
.3 Types of movement
.4 Automatic or involuntary movements
.42 Innate
.422 Tropisms
.423 Reflexes
Conditiond reflexes, etc

158.424 Instincts
- 1 Theories of instinct
  - 11 **Philosofic**
  - 12 **Theologic**
  - 13 **Mechanistic**
  - 14 **Hormic**
- 2 Laws of instinct
  - 22 **Law of individualization of instincts**
  - 23 **" " transitoriness " "**
  - 24 **" " survival " "**
  - 25 **" " convergence " tendencies**
  - 26 **" " inhibition " "**
- 3 Physiology of instincts
  - See also 612.8213 Physiology
- 4 Appetites and impulses, tendencies, dispositions, desires
  - 41 **Purpose or basis**
  - 42 **Form**
  - 43 **Degree or intensity**
- 5 Varieties
  - Arrange alfabeticly. Combativness, imitation, mating, sociability etc. For play see 790.1
- 7 Pathology
- 8 Mesurements of instinct

·43 **Acquired Habits**
- ·432 Physiology of habit Law of habit
- ·433 Motor lerning Acquirement of skil
  - See also 154.4 Lerning
  - 3 Methods
    - 32 **Repetition Exercise Dril Practis**
    - 33 **Neural association Ligation (dynamic association)**
  - 4 Results
    - 42 **Simplification of movements**
      - 422 Emfasis and fixation of useful or necessary movements
      - 423 Elimination and inhibition of useless or unnecessary movements
    - 43 **Diminution of conscious attention**

·434 Forms of habituation
- 2 Central
- 3 Contributory
- 4 Independent or bifurcate

·435 Right- and left-handedness

·437 Pathology

·438 Mesurements of habit

158.5 Voluntary or consciously controld movements
- See also 159 Wil
- ·57 **Pathology**
- ·58 **Mesurements**

·7 **Work and fatigue**
- ·72 Work or fatigue curv
  - See also 154.46 Curv of lerning
  - ·721 **Initial spurt**
  - ·722 **Warming up**
  - ·723 **Plateaus Breathing places**
  - ·724 **Decline**
  - ·725 **End spurt**
- ·73 Factors affecting efficiency
  - ·731 **Rest periods**
  - ·732 **Change of work**
  - ·733 **Distractions**
  - ·734 **Incentivs**
  - ·735 **Drugs**
  - ·736 **Food and fasting**
  - ·737 **Loss of sleep**
  - ·738 **Climatic conditions**
  - ·739 **Other**
- ·74 Elements in fatigue
  - ·741 **Metabolic fatigue**
  - ·742 **Transferd metabolic fatigue**
  - ·743 **Fatigue sensations**
  - ·744 **Sensory adaptations**
  - ·745 **Interference**
  - ·746 **Refractory period**
  - ·747 **Diurnal variations**
- ·77 Pathology
- ·78 Mesurements

·8 **Special motor functions**
- ·82 Locomotion
  - Walking, running etc. See also 612.76 Physiology
- ·83 Vocal expression
  - Speech, singing, whistling etc; dumness. Prefer 401 Philology for psychology of language, 784.001 Vocal music
- ·84 Grafic expression
  - Reading, writing, drawing etc. Prefer 372.4 Reading, 372.51 Writing, 372.52 Drawing

159 Wil Volition
.01 General theory
.016 Miscellaneous theories
2 Intellectualistic
3 Absolute
4 Heterogenic
42 Associationist
43 Genetic or evolutionary
44 Physiologic
5 Emotional or affectiv
.1 **Freedom of wil**
.12 Elements of free action
.122 **Alternativ**
.123 **Deliberation**
.124 **Choice Decision Resolv**
2 Effortless
22 Reasonable
23 Accidental
232 **Determind from without**
233 " " **within; explosiv**
24 Resulting from change of mood
3 Effortful Resolute Obstructed
Feeling of effort. See also 152.673523 Sensations of effort and power
.13 Responsibility
.14 Determination
.2 **Voluntary human action**
See also 158.5 Voluntary movements
.22 Types
.222 **Ideomotor**
.223 **Deliberate**
.23 Conditions of execution
.232 **Kinesthetic ideas**
2 Resident
3 Remote
.233 **Feeling of innervation**
.24 Training of wil Mental self disciplin
Initiativ, effort and accomplishment, self direction, self control
.3 **Habitudes Routines Accommodation and adaptation Adjustment**
See also 158.43 Habits
.4 **Intentions Motivs Desires**
Rationalization
.7 **Pathology**
.8 **Mesurements**

160 Logic Dialectics

See also 153.6 Reasoning power. For logic of chance, see 519 Probabilities

161 Inductiv

162 Deductiv

163 Assent Faith

See also 234.2 Doctrinal theology

164 Symbolic Algebraic

Logical machines

Logical topics

165 Sources of error Fallacies

166 Syllogism Enthymeme

167 Hypotheses

168 Argument and persuasion

169 Analogy Correspondence

See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law
See also 377.2 Ethical education.

.1 .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafy .9 History

171 Theories Philosofy of ethics

Theories of the basis of morality

.1 **Authority Will of God Christian**

For rules of Christian conduct see 241

.2 **Intuition Moral sentiment**

See also 143 Intuitionalism; 156 Intuitiv faculty

.3 **Perfection**

.4 **Happiness Hedonism**

.5 **Utilitarianism**

.6 **Conscience Casuistry**

.7 **Evolutionary or educational**

.8 **Altruism**

.9 **Egoism**

172 State ethics

.1 **Individuals and the state Duties of citizens Patriotism**

See also 320 Political science

.2 **Duties of public offisers** Official corruption

.3 **Relations to church**

Duty of state as to support and protection of church
See also 261.7 The church; 322 Church and state; 272 Persecutions

.4 **International ethics Peace and war**

See also 341 International law

173 Family ethics

.1 **Marriage and divorce** See also 347.6 Family law

.2 **Polygamy and monogamy**

.3 **Duties of husbands and wives**

.4 Infanticide

.5 **Duties of parents**

.6 **Duties of children**

.7 **Home life**

.8 **Masters and servants** See also 647 Servants; 331 Labor

.9

174 Professional and business ethics

.1 **Clergy**

.2 **Physicians**

.3 **Lawyers**

.4 **Merchants Business men Business virtues and vices**

.5 Speculation Mammonism Avaris

.6 Gambling Lotteries

See also 175 below

.7 Honor, honesty Dishonesty

Compact, promis; chicanery trickery

.8 **Employers and employd**

.9

175 Ethics of amusements

For amusements, see 790

.1 **Public shows and diversions Rinks, circuses, etc.**

.2 **Theater Opera Private theatricals**

.3 **Dancing Balls Round dances**

.4 **Games of skill: billiards, chess, etc.**

.5 **Games of chance: cards, dice, etc.**

.6 **Prize fighting Animal fighting: bull, dog, cock, etc.**

.7 **Racing: horse, boat, pedestrian, wheel, etc.**

.8 **Novel reading**

.9 **Betting Poolselling** See 174.6

176 Sexual ethics

.1 **Chastity**

.2 **Celibacy** See also 253 Celibacy of clergy

.3 **Continence**

.4 **Solitary vice**

.5 **Social evil** See also 258 Parish care of fallen

.6 **Adultery**

.7 **Immoral art**

.8 **Immoral literature**

.9

177 Social ethics

.1 **Curtesy**
See also 395 Etiquet

.2 **Conversation Gossip**
See also 374.1 Self cultur

.3 **Truth Slander Flattery**

.4 **Dress Display Sumptuary legislation**

.5 **Caste Class feeling Welth and rank**
See also 294 Brahmanism, and 323.31 Nobility, welthy class

.6 **Friendship Courtship Coquetry**

.7 **Philanthropy Humanity**

.8 **Solitude vs social obligations**

.9

178 Temperance Stimulants and narcotics

May be divided by form .01–.09; see Index table 2, following Relativ index
See also 132.72 Dipsomania, 331.84 Laboring classes, 613.3 Beverages, 613.8 Nervous system

.1 **Use of intoxicating drinks Beer drinking Medicinal use**
See also 616.861 Alcoholism; and Alcohol, Alcoholic, in Relativ index

.2 Total abstinence vs temperance

.3 Social drinking Wine at table Treating

.4 **Traffic in intoxicating drinks License High license**
See also 330.278 Taxation

.5 Prohibition
Including legal discussion of prohibition. See also 329.81 Prohibition party

.6 **Inebriates**
Discussion, reformation. For reformatories and inebriate asylums see 362.13

.7 **Tobacco**

.8 **Opium Hashish Chloral Ether and other drugs**

.9 **Gluttony and other intemperance**

179 Other ethical topics

.1 **Morals of the press Newspapers**
See also Journalism, 070.11

.2 **Cruelty**
Societies for preventing cruelty to children and also general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children

.3 Cruelty to animals

.4 Vivisection
See also 614.22 Vivisection laws

.5 **Oaths**

.6 **Heroism Bravery Cowardis**

.7 **Life Dueling Suicide**
See also 394.8 Dueling as a custom

.8 **Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices**

.9 **Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues**

180 Ancient and Oriental philosofers

See also 921.9 Biografy of ancient philosofy

181 Oriental philosofers

.1 **Chinese: Confucius, Mencius**

.2 **Egyptian**

.3 **Jewish: kabala; Philo Judaeus, Maimonides**

.4 **Indian: gymnosophists**

.5 **Persian Sufism**

.6 **Chaldaean**

.7 **Sabeism**

.8 **Phenician**

.9 **Syrian**

182 Early Greek philosofers

.1 **Ionic: Thales, Anaximander, Anaximenes**
Materialistic. Things are as they seem

.2 **Italic or Pythagorean** Half idealistic

.3 **Eleatic: Xenophanes, Parmenides, Zeno, Melissus**
Idealistic. Existence denied. Thought is the only reality

.4 **Heraclitus**

.5 **Empedocles**

.6 **Atomistic**

.7 Democritus

.8 **Anaxagoras**

.9 **Other early Greek**

183 Sophistic and Socratic philosofers

.1 **Sophistic: Protagoras, Gorgias, Prodicus, Hippias**

.2 **Socrates**

.3 **Socratic**

.4 **Cynic: Antisthenes, Diogenes, Crates, etc.**

.5 **Cyrenaic: Aristippus, Hegesias, etc.**

.6 **Megaric: Euclid, Eubulides, Diodorus, etc.**

.7 **Elian and Eretrian: Phedo, Menedemus, etc.**

184 Platonic Older Academy

.1 **Plato**
Class his works preferably in 888.4, but discussion of his philosofy here

.2 **Speusippus**

.3 **Xenocrates**

185 Aristotelian Peripatetic Lyceum

.1 **Aristotle**
Class his works preferably in 888.5, but discussion of his philosofy here

.2 **Theophrastus**

.3 **Eudemus**

.4 **Strato**

186 Pyrrhonist New Platonist

.1 Pyrrhonism Skepticism Pyrrho, Timon
.2 New Academy: Arcesilaus, Carneades, Plutarch
See 888.8 Plutarch's works
.3 Eclecticism: Cicero See 875.4
.4 Alexandrian, Neo-Platonic: Philo of Larissa, Plotinus, Proclus, Porphyry, Iamblichus See 239.4 Apologetics; 273.1 Heresies

187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic

.1 Zeno
.2 Cleanthes
.3 Chrysippus
.4 Panaetius
.5 Posidonius
.6 Seneca See 878.5; 872.5
.7 Epictetus
.8 Marcus Aurelius

189 Early Christian and medieval philosofers

.1 Gnosticism See 273.1 Basilides, Marcion. See 273.2 Manicheism
.2 Patristic: Tertullian, Augustine, Clement, Origen
.3 Arabian: Avicenna, Averroes
.4 Scholastic: Scotus, Aquinas, Anselm, Abelard
.5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme

190 Modern philosofers

See also 921.1 to 921.8 Biografy of philosofy, or lives may be put here with works, with references only under 920 Biografy. Philosofic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American and Canadian philosofers

.1	Jonathan Edwards	1703–58	
.2	Orestes A Brownson	1803–76	
.3	Ralph Waldo Emerson	1803–82	See 814.36
.4	Laurens P Hickock	1798–1888	
.5	James McCosh	1811–94	
.6	Noah Porter	1811–92	
.7	Francis Bowen	1811–90	
.8	William Torrey Harris	1835–1909	
.9	Other American philosofic writers		

192 British philosofers

English, Scotch, Irish, Welsh

.1	Bacon	1561–1626	See 144 Empiricism
.2	Locke	1632–1704	See 145 Sensationalism
.3	Berkeley	1685–1753	See 141 Idealism
.4	Hume	1711–76	See 824.64 English essays
.5	Reid	1710–96	See 143 Intuitionalism
.6	Dugald Stewart	1753–1828	
.7	John Stuart Mill	1806–73	
.8	Spencer	1820–1903	
.9	Other British philosofic writers		

193 German and Austrian philosofers

.1	Leibnitz	1646–1716	
.2	Kant	1724–1804	See 142 Critical philosofy
.3	Fichte	1762–1814	See 141 Idealism
.4	Schelling	1775–1854	
.5	Hegel	1770–1831	
.6	Schleiermacher	1768–1834	
.7	Schopenhauer	1788–1860	See 149.6 Pessimism
.8	Lotze	1817–81	
.9	Other German philosofic writers		

194 French philosofers

.1	Descartes	1596–1650	See 144 Empiricism
.2	Malebranche	1638–1715	
.3	Condillac	1715–80	
.4	Rousseau	1712–78	
.5	Diderot	1713–84	
.6	Lamennais	1782–1854	
.7	Cousin	1792–1867	See 148 Eclecticism
.8	Comte	1798–1857	See 146 Positivism
.9	Other French philosofic writers		

195–198 may be divided like 945–948; e.g. 196.9 Portuguese philosofers, 198.5 Swedish

199 Other modern philosofers

Divided like 940–999, except for those specially provided for in 191–198 and for modern Oriental philosofers (181); e.g. 199.438 Polish philosofers, 199.492 Dutch, 199.85 Peruvian

The heds of 180–199 are for discussions of the systems of these men and for their philosofic works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184–5 because of their classic prominence

Religion

200 Religion General works

201 Philosofy, theories, methods

202 Compends, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses
See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies: transactions, reports, etc.
General conferences. Societies whose work is largely done by paid offisers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

207 Education: theologic seminaries, training schools Divided like 940–999

208 Polygrafy: collected works, extracts, etc.
Many collections go under a more specific hed; e. g. 240

209 History of religion
General, including ecclesiastic antiquities, statistics, etc. See also 270 for Christian religion, and 274–279 for Christian antiquities of special countries. See also note under 290

210 Natural theology

Concerns evidence in nature exclusiv of revelation, also Christian or skeptic discussion of specific topics (211–214, 216–218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism Atheism Theism
Skepticism. Infidelity. Rationalism, etc.
Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally reveald, e. g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here
See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosofy See 147 Pantheism; 129.5 Origin of soul

213 Creation See 113 Cosmology Evolution See 575 Science
From religious viewpoint; attempts to harmonize *Genesis* and geology. See also metaphysics, 113 Cosmology; and pure science, 575 Evolution

214 Providence See 231.5 Doctrins Theodicy See 231.8 for Christian view
Fatalism

215 Religion and science See 239.8 Apologetics
Antagonism or reconciliation between science and Bible religion. Pro and con arguments by scientists. Bridgewater treatises. For creation, see 213

216 Good Evil Depravity See 149.6 Pessimism; 233.2 Sin

217 Worship Prayer
Tests of efficacy of prayer: prayer gage. See also 264.1 Prayer; 248 Personal religion

218 Future life Immortality Eternity
See 237 Future state; 128 The soul

219 Analogies Correspondences See also 169 Logic

220 Bible General works

For similar works limited to Old or New Testament, or individual books, see specific hed below

.1 **Canon Inspiration Authorship Profecy**

.2 **Concordances Analyses**

.3 **Dictionaries Cyclopedias**

.4 **Original texts and early versions Codices**
Heds for old and new testaments are given, as they are also used for 221 and 225

.42 Chaldee

.43 Syriac

.44 Hebrew

.45 Samaritan

.46 Other Semitic: Ethiopic, Arabic, etc.

.47 Latin, Itala, Vulgate

.48 Greek, Septuagint Aquila, Symmachus, Theodotion Hexapla

.49 Other early versions: Armenian, Coptic, Gothic, etc.
220.4 and 220.5 are pure texts. A Hebrew Bible with commentary goes in 220.7 with reference from 220.44

.5 **Versions of Bible Polyglots** Divide by languages, like 400
These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43

.6 **Hermeneutics Exegesis Symbolism Typology**

.7 **Commentaries on whole Bible, and annotated editions**
For notes, etc. on portions of the Bible, see the most specific hed in 221–229

.8 **Special topics**
Divided like general Classification; e. g. natural science of the Bible in 220.85

.9 **Biblical geografy and history**

.91 Biblical geografy, description, etc.
See 915.69, 913.33 Palestine

.92 Scriptural biografy
See also 922.1; 232.9 Lives of Christ

.93 Antiquities, archeology
See also 296 Jewish religion; 933 History of Jews

.94 Chronology

.95 History
See 933 Jews

221 Old Testament: texts, introductions, etc.
Divided like 220; e. g. 221.7 Commentaries on Old Testament

222 Historical books
.1 **Pentateuch**
.11 Genesis
.12 Exodus
.13 Leviticus
.14 Numbers
.15 Deuteronomy
.16 Decalog
.2 **Joshua**
.3 **Judges and Ruth**
.4 **Samuel**
.5 **Kings**
.6 **Chronicles**
.7 **Ezra**
.8 **Nehemiah**
.9 **Esther**

223 Poetic books
.1 **Job**
.2 **Psalms**
.3 Authorship and chronology
.4 Special groups
Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic five books, Psalms 1–41; 42–72; 73–89; 90–106; 107–150
.5 Liturgic use by Christians Metrical versions
See 264.038 Anglican psalter; 245 Hymnology
.6 Commentaries on psalms
.7 **Proverbs**
.8 **Ecclesiastes**
.9 **Song of Solomon, or Canticles**

224 Profetic books
.1 **Isaiah**
.2 **Jeremiah**
.3 **Lamentations**
.4 **Ezekiel**
.5 **Daniel**
.6 **Hosea**
.7 **Joel**
.8 **Amos**

224.9 **Other minor prophets**
.91 Obadiah
.92 Jonah
.93 Micah
.94 Nahum
.95 Habakkuk
.96 Zephaniah
.97 Haggai
.98 Zechariah
.99 Malachi

225 New Testament: texts, introductions, etc.
Divided like 220

226 Gospels and Acts
.1 **Harmonies**
.2 **Matthew**
.3 **Mark**
.4 **Luke**
.5 **John**
.6 **Acts of the apostles**
.7 **Miracles**
.8 **Parables**
.9 **Lord's prayer**

227 Epistles
.1 **Romans**
.2 **Corinthians 1**
.3 **Corinthians 2**
.4 **Galatians**
.5 **Ephesians**
.6 **Philippians**
.7 **Colossians**
.8 **Other Pauline epistles**
.81 Thessalonians 1
.82 Thessalonians 2
.83 Timothy 1
.84 Timothy 2
.85 Titus
.86 Philemon
.87 Hebrews
.9 **Catholic epistles**
.91 James
.92 Peter 1
.93 Peter 2
.94 John 1
.95 John 2
.96 John 3
.97 Jude

228 Apocalypse Revelation

229 Deuterocanonical books Apocryfa Pseudepigrafa

.1 Esdras 1, 2
.2 Tobit, Judith, Esther
.3 Wisdom
.4 Ecclesiasticus
.5 Baruch, Epistle of Jeremy, Song of the three children
.6 Story of Susanna, History of Bel and the dragon, Prayer of Manasses
.7 Maccabees 1, 2, 3, 4
.8 Pseudo gospels
.9 Other pseudepigrafa
.91 Old Testament
.911 Historical books
.912 Poetic books
.913 Profetic books Jewish apocalypses
Book of Enoch; Assumption of Moses; Epistle of Baruch; Apocalypse of Baruch; Ascension or vision of Isaiah; 4th book of Esdras; Book of Eldad and Modad; Apocalypse of Elias; Apocalypse of Zephaniah; Apocalypse of Daniel
.914 Testaments
Testament of the 12 patriarchs; Testament of Abraham; Testament of Job
.915 Other books by or about the profets
Books of Elias, Jasher, Jesirah, Zorah
.92 Pseudepigrafa of the Acts of the apostles
.93 Pseudepigrafa of the epistles
.94 Pseudepigrafa of New Testament apocalypses
.95 Other recently discovered pseudepigrafa
.951 Sayings of Jesus

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280–289. See also 252.3 Clas here polemics either offensiv or defensiv, when distinctly doctrinal; but clas in 280 history of a sect, even if largely controversial and of a limited period. Clas controversy about a special doctrin with its subject; e.g. controversy on the atonement 232.3

231 God Unity Trinity

.1 God the Father, Creator
.2 God the Son, Redeemer
Second person of the Trinity, irrespectiv of his appearance on earth as the historic Christ
.3 God the Holy Ghost, Giver of Life, Sanctifier
.4 Divine attributes: omniscience, omnipresence, omnipotence
.5 Divine providence See also Natural theology 214
.6 Divine love and wisdom

231.7 Divine law Government of God
.73 Miracles
Supernatural events. Wonders. Thaumaturgy. The miracle as an argument of faith; belief in miracles. Bible miracles and post-Bible miracles. Miraculous places. Miraculous objects: relics, statues, images. Miraculous cures. Stigmata
.74 Revelation, vision and appearing of God
.8 Theodicy
Vindication of God's justis in permitting evil. See also Natural theology, 214
.9

232 Christology

.1 Incarnation Messiah
.11 Messiah according to the Bible
.12 Messianic profesies
.121 Protevangelium Promis to Adam of a redeemer
.122 Promises to the patriarchs
.123 Profesy of Jacob
.124 Promises to David
.125 Profesies in Psalms
.126 Profesy of Isaiah
.127 " " Daniel
.128 Other profesies: Zechariah, Jeremiah etc.
.129 Apocryfal profesies
.13 Waiting for Messiah
.2 Logos, the Word of God
.3 Atonement
.4 Sacrifice
.5 Resurrection
.6 Second coming See also 286.7 Second adventists
.7 Judgment
.8 Divine humanity
Divinity of the man Jesus, pro and con
.9 Lives of Christ
General biografies of Christ: His person, teaching, works, influence
.91 Annunciation
.92 Infancy
.921 Nativity
.922 Adoration of the shepherds
.923 The 3 wize men Epiphany
.924 Circumcision
.925 Massacre of innocents
.926 Flight into Egypt
.927 Retired life in Nazareth
.928 Presentation in temple
.929 Jesus among the doctors
.93 Holy family
.931 Mary
.932 Joseph
.933 Parents of Mary: Joachim, Anne
.94 John the Baptist, forerunner of Christ

232.95 Public life of Christ
.951 **Baptism**
.952 **Temptation**
.953 **Calling apostles**
.956 **Transfiguration**
.957 **Lord's supper**
.958 **Last words**
.96 Passion of Christ
.961 **Betrayal by Judas**
.962 **Trial Condemnation**
.963 **Crucifixion Deth**
.964 **Burial Laying in grave**
.966 **Relics of passion**
.967 **Descent into hell**
.97 Resurrection and ascension
.971 **Appearances of Christ**
.972 **Ascension**
.98 Agrapha
Christ's words not contained in Gospels
.99 Legendary, apocryfal and imaginativ, accounts of Christ
.991 **Poetry** .992 **Drama** .993 **Fiction**

233 Man

.1 **Origin Fall**
.11 Creation of man Preadamites Coadamites
.12 Primitiv state of innocence Elevation to supernatural order Theory of supernatural and of state of pure nature
.13 Erthly paradise Eden
.14 Fall Nature of original sin Its results Transmission
See also 273.5 Pelagian heresy
.2 **Sin**
.21 Mortal and venial sin
.22 Sins against the Holy Ghost
.3 **Moral and spiritual heredity**
See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
.4 **Accountability**
.5 **Natural and spiritual body**
.6 **Personality** See also Metaphysics, 126
.7 **Freedom** See also 234.9; 123; 159

234 Salvation Soteriology

.1 **Grace**
See also 273.7 Jansenist heresy
.11 Actual grace
.111 **Nature and form**
.112 **Necessity**
Doctrin of Pelagians, Socinians, Remonstrants and Rationalists; of Lutherans, Calvinists, De Bay, Jansen and Quesnel
.113 **Free grace**
.114 **Distribution of the graces**
.115 **Relation between grace and free will Premotion Molinism**
See also 234.9 Predestination
.12 Sanctifying grace
.123 **Nature of sanctifying grace**
.13 Merit
.14 Innate virtues
.15 Gifts of the Holy Ghost
.2 **Faith**
.21 Nature
Natural elements and natural motivs in exercize of faith. Formal motiv: authority of God
.22 Necessity of grace for belief
.23 Relation between faith and science, revelation and reason
See also 215 Religion and science; 239.7 Apology against rationalists
.24 Rule of faith Test of truth in theology
See also 262.7 Tradition; 262.8 Authority of the church
.25 Reveald mysteries in general
.26 Religious doubt
.3 **Redemption**
.4 **Regeneration**
.5 **Repentance**
.6 **Obedience**
.7 **Justification**
.8 **Sanctification**
.9 **Predestination and freewill** See also 233.7; 123; 159

235 Angels Devils Satan

236 Eschatology Last things

.1 **Deth**
.2
.3 **Millennium**
.4 **Intermediate state Sheol Hades**
.5 Purgatory
.6 Paradise Limbus patrum
.7 Limbo Limbus infantum
.8 **Resurrection**
.9 **Judgment** See also Christology, 232.7

237 Future state See also Natural theology, 218

.1 Eternity
.2 Immortality
.3 Conditional immortality
.4 Heven
.5 Hell Gehenna
.6 Retribution Future punishment
.7 Eternal punishment See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms
Divided more closely if wisht like 280–289; e. g. 238.19 Greek church

.1 Apostles, Nicene, and Athanasian creeds
.2 Creed of Pius 4 (Trent) and later Roman
.3 Anglican 39 articles, A. D. 1551 See also 264.037 Liturgy
.4 Continental protestant Lutheran Calvinist Dort
.5 Westminster Saybrook Cong'l Cambridge Savoy
.6–.9 Of other sects Divided like 286–289

239 Polemic theology Apologetics Evidences of Christianity
If preferd, courses of apologetic lectures may be kept together; e. g. 239.01 Bampton; .02 Boyle; .03 Hulsean; .04 Bohlen; .05 Paddock; .08 Miscellaneous. More usefully each book is clast under the most specific hed that will contain it
See also natural theology 211–218 and doctrins 231–237 for discussion of separate topics

.1 Apostolic age
.2 Against the Jews
.3 Against the heathen
.4 Against the Neo-Platonists See 273.1 Gnostic heresy
.5 Against the English and Scotch deists See 211 Deism
.6 Against the French encyclopedists
.7 Against the rationalists
See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
.8 Against the scientists For nonchristian view, see 215
.9 Other special denials

240 Devotional Practical

241 Didactic
Specifying the Christian's duty to do and to avoid. For Catechisms see 238

242 Meditativ, contemplativ
Consolatory. See also 248 Personal religion

.1 Thomas à Kempis

243 Hortatory, evangelistic
Urging sinners to Christian repentance

244 Miscellany: religious novels, Sunday school books, allegories, satires, etc.
But clas Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry
Hymns without music. For hymns with music see 783.9
Divided by languages, like 400, and then, after 0, by churches, like 280, if denomination is clearly markt
See also 223.5 Psalms

246 Ecclesiology Symbolism Religious art
246–7 cover religious bearings. For art side see 704.948

.1 Byzantine and Gothic ecclesiology
See 723 Medieval architecture; 726 Religious architecture
.2 Primitiv church and heathen art
.3 Images in churches Iconoclasts
.4 Protestantism and religious art
.5 Emblematic and cryptografic art: catacomb symbols
.6 Liturgic symbolism: altar, colors, lights
See also 264 Public worship
.7 Evangelistic use of music and art, pictorial and plastic: Della Robbias
.8 Eucharistic music: Ambrose, Gregory the Great Later development See also 783 Sacred music; 264.2 Public worship
.9

247 Sacred furniture Vestments Vessels Ornaments, etc.

.1 Font Baptistery Lectern Pulpit
.2 Tabernacle Rood screen Reredos
.3 Sculpture and mortuary design
See 718 Monuments; 726.8 Mortuary bildings; 730 Sculpture
.4 Illumination Mosaics Enamels Staind glass
See also 745 Ornamental design; 748 Staind glass
.5 Fresco and religious painting See also 750 Painting
.6 Pallium Miter Crozier Ring
.7 Vestments and altar cloths
.8 Eucharistic vessels See also 265.3 Sacraments
.9 Ornaments, etc: crucifix, banners, thurible, incense

248 Personal religion Asceticism
See also 273.2 Ascetic heresy

249 Family devotions See 264 Public worship

250 Homiletic Pastoral Parochial

251 Homiletics · Preaching See 264.6 Public worship
Divided like 252, for matter *about* special kinds of sermons

252 Sermons
When too varied for any of the subheds .1–.9, may be divided with .0 by churches and sects, like 280; e. g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1. Sermons on specific topics ar more useful, like other pamflets, clast with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, 331.892. Tho the 9 heds below ar for collections and cross references, they may be used for separate sermons if preferd

.1 **Episcopal charges Pastorals**
.2 **Controversial Polemic**
.3 **Doctrinal Dogmatic** See also 230 Dogmatics
.4 **Practical Devotional**
.5 **Academic Educational** See also 378...K Baccalaureates
.6 **Political Public occasions and duties**
Thanksgiving and Fast day
.7 **Consecration Ordination Installation**
See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders
.8 **Expository**
.9 **Memorial Obituary Biografic Historical**
Memorial of a special church goes with that church in 280. See also 920 Biografy

253 Pastoral life and duties Celibacy

254 Church finance Cleric support

255 Brotherhoods Sisterhoods
In the parish. For Monastic orders, see 271

256 Societies for parish work: gilds, sodalities
Local societies. Discussion of desirability of such work. For general societies see 206 and 267

257 Parish educational work
Schools, libraries etc. See also 377.5 Education; 027.832 Parish libraries

258 Parish welfare work
Work for sick, fallen, afflicted etc. See also 265.8 Ministry of sick; 176.5 Social evil

259 Other ministrations and work

260 Christian church: institutions and work

261 The church
Its influence on morals, civilization, etc. Relation to social questions, laboring classes, etc.

.1
.2
.3 **Church vs barbarism**
.4 **Church and morals**
.5 **Church and intellectual development** See also 377.8 Education
.6 **Church and civilization**
.7 **Church and civil government**
See 172.3 State ethics; 322 Church and state
Their relations: religious liberty; tolerance and intolerance; state religion; patronage of church by civil government, suppression; disestablishment; union of church and state; concordat; etc.
.73 Power of church over temporal power of princes Theocracy
.75 The church and modern freedom
Papal syllabus of Pius 10
.8 **National churches vs organic unity**
.9

262 Ecclesiastic polity
.1 **Ministry**
.11 Apostolic succession
.12 Episcopate
.13 Papacy Primacy Papal supremacy
.131 **Caracteristics of the papacy**
Primacy of see of St Peter and pontifical infallibility
.132 **Temporal power of pope Pontifical states**
.135 **Conclave Election of pope**
.136 **Organization of the pontifical curia**
.14 Priest Presbyter Minister Lay ministry
.15 Deacon Deaconess Evangelist
.16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons
.17 Episcopal
.18 Presbyterian
.19 Congregational
.2 **Parish Congregation** See 250 for Parochial work
.3 **See Diocese Cathedral system**
.4 **Council Synod Presbytery Congregation Convention**
Polity only, here. Proceedings go with churches, 281–9
.41 National
.5 **General or ecumenic council** See also 270.2
.6 Canons Decrees
.7 **Traditions**
.8 **Authority Church and ministerial Private judgment**
.9 **Disciplin Courts Trials** For Church law see 348

263 Sabbath Lord's day Sunday
.1 **Hebraic sabbath**
.2 **Modern sabbath Seventh day**
.3 **Lord's day Christian Sunday**
.4 **Sunday observance**
.5 Work
.6 Amusement
.7 Opening libraries and museums See also 024.4 Library rules
.8 Sunday laws
.9

264 Public worship Divine servis Ritual Liturgy
Prayer books. See also 246 Ecclesiology; 247 Sacred furniture. General works ar divided with .o by churches like 280; e. g. Roman catholic prayer book 264.02. Under various churches the servises may be further divided, as e. g.
.03 Anglican and American P. E. ritual
.031 Calendar Festivals and fasts See also 529.44 Chronology
.032 Lectionary and rubrics
.033 Morning prayer Litany
.034 Evening prayer Vespers Compline
.035 Sacraments, ordinances, and servises See also 265 Sacraments
.036 Collects, epistles and gospels
.037 Ordinal Articles Creeds See also 238.3 Creeds, doctrins
.038 Psalter and other See 223.5 Psalms; 245 Hymnology
.039 History of successiv prayerbooks
.1 **Prayer Extempore Liturgic**
See also 248–249 Private and family prayer
.2 **Music Singing Instrumental Praise meeting**
See also 783 Sacred music; 246.7, 246.8 Ecclesiology
.3 **Scripture readings**
.4 **Antiphonal or responsiv readings**
.5 **Confessions of faith Creeds** See also 238 Creeds
.6 **Sermons Exhortations Instructions**
See also 251 and 252 Preaching and sermons
.7 **Prayer and conference meetings**
.8 **Clas and covenant meetings Love feasts**
.9 **Sacramentals** See also 265 Sacraments

265 Sacraments Ordinances
.1 **Baptism**
.2 **Confirmation Church fellowship**
.3 **Eucharist Holy communion Sacrifice**
.4 **Holy orders Ordination** See also 262.16 Ministry; 252.7 Sermons
.5 **Marriage** See also 173 Ethics of the family
.6 **Penance Confession Absolution**
.61 Contrition See also 234.5 Repentance
.62 Confession

265.63 Satisfaction
.64 Absolution
.65 Censures: excommunication, suspension, interdiction
.66 Indulgences
.67 Ancient public penance
.68 Reconciliation of heretics
.69 Ministration of the sacrament
.7 **Extreme unction Viaticum**
.8 **Ministry of sick and ded: faith cure, healing, burial**
.9 **Consecration Dedication** See 262.16 Ordination; 252.7 Sermons

266 Missions: home and foren
Subdivided by churches, like 280. See also 269 Parish missions; 377.6 Missionary schools
Missions in special countries or places covering the work of several sects go under the geograficly divided Religious history 274–279. The mission of a single sect in a special country or place may, according to preference, be clast with Missions in 266, subdivided by sect, or with Religious history 274-279

267 Associations
General societies demanding of members activ personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206
.1 **Religious societies of both men and women**
.11 U. S. Christian commission
.15 Salvation army
.18 Denominational
Divided like 280; e.g. 267.186 Baptist adult union
.2 **Religious societies of men**
For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies 207; Bible societies, 206
.21 17th century or earlier } May be divided by countries like 940–999
.22 18th century }
.23 19th century or later; inter- and undenominational
.231 In educational institutions
Divided like 940–999. If preferd, cancel .231 and put all together in .234–9
For work of Y. M. C. A. see 267.361
.232 Nasmith societies
.233 Young men's Christian unions; i. e. not "evangelic," etc.
.234–.239 Others Divided like 940–999
.24 19th century or later; denominational
.241 In educational institutions
Divided like 282–289. If preferd, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361
.242–.249 Others Divided like 282–289
.3 **Young Men's Christian associations**
Following subdivisions may also be applied to 267.432 Women's and 267.5 Young women's Christian associations
.31 General questions
Objects, field, extension. Relation to church. Methods of local, state, national, international work. For history, reports, etc. see 267.39
.32 Buildings
Location, plans, provision for special rooms; lighting, heating, ventilation; furniture and fixtures. See also 726.973 Architecture

267.33 Organization
Incorporation, branches and suborganizations, managers, trustees, standing committees, membership, etc.
.34 Salaried officers: Duties, qualifications, training
.341 General secretary and assistants
Including international and state secretaries
.342 Librarian and assistants
For library administration see 025 Library economy, 267.353 Library in Education dept
.343 Phisical director and assistants
See also 267.355 Phisical dept, 613.7 Recreational hygiene and gymnastics
.344 Other salaried officers
.345 Training: Need, methods, demand, supply
.346 Training schools
.347 Apprenticeship training
.348 Institutes .349 Conferences
Methods only; for reports see 267.39
.35 Departments
Organization, committees, work, methods, etc. For similar aspects of work with boys see 267.357 Boys dept
.351 Business dept .352 Religious dept
.353 Education dept: Including library; for librarian see 267.342
.354 Social dept
.355 Phisical dept
For phisical director see 267.343; see also 613.7 Recreational hygiene and gymnastics
.356 Dept of information, relief, etc.
Boarding house, employment, savings, etc. buros; visitation of sick, aid to destitute, etc.
.357 Boys dept
2-6 may be used like 267.352-.356 for such work in Boys dept; e.g. 267.3575 Phisical work of Boys dept
.359 Janitor's dept: Including safety and police mesures
.36 Work among special classes
Limited to Y.M.C.A.; for other religious societies of men see 267.2
.361 College and school
.362 Railroad employes
.363 Commercial travelers
.364 Foren-speaking
May be divided like 400; e.g. 267.3643 German
.365 Negroes .367 Soldiers
.366 Indians .368 Sailors
.369 Other: police, firemen, fishermen, etc.
.39 History, reports, periodicals, etc.
General and international. For methods see 267.31
.394-.399 Special countries divided like 940-999
.4 Religious societies of women
.43 19th century or later; inter- and undenominational
.432 Women's Christian associations
Divided like 267.3. To shorten the number, W may be used for 267.432 thruout; e. g. W 1 would mean 'Objects, field and extension'
.433 King's daughters
.44 19th century or later; denominational Divided like 282-289
.5 Young Women's Christian associations
Activ membership confined to members of 'evangelic' churches
Divided like 267.3-.399
To shorten the number Y may be used for 267.5; e. g. Y3, Organization, insted of 267.53

267.6 Religious societies of young people For Sunday schools see 268
.61 Interdenominational and undenominational
.613 Young people's society of Christian endevor
1 Reports, etc.
2 Periodicals
.62 Denominational Divided like 282-289
.7 Religious societies of boys Not Y. M. C. A. Divided like 267.6
.8 Religious societies of girls Not Y. W. C. A. Divided like 267.6

268 Sunday schools Religious education

.1 Establishment Administration
.12 Constitution Bylaws
.14 Business department
.142 Finances
2 Budget
3 Regular subscriptions Sistematic giving Duplex envelop sistem
4 Soliciting Collecting
6 Disbursements
.144 Printing
Programs, announcements, school paper, school manual
.145 Publicity
Local pres, concerts, posters, invitation cards, 'go to Sunday school' buttons
.146 Bilding up attendance
Entertainments: concerts, socials, picnics, Christmas tree
.15 Branches Missions
.2 Premises Equipment
.21 Grounds
Site; provision for growth
.22 Bildings
See also 726.4 Architecture; 697 Heating and ventilating; 628,9 Lighting
.23 Plan and arrangement of rooms
.231 Administrativ rooms and offises
.232 Study, lecture and assembly rooms
.233 Library and museum
.234 Manual work rooms
.235 Social rooms
Parlors, kitchens, pantries etc.
.236 Gymnasium
.237 Sanitation Lavatories
.239 Accessories
Elevators, lifts, telefones etc.
.24 Furnishing Decorating
.241 Furniture
Blackboards, desks, chairs, benches, sand tables, book cases, stereopticons maps, globes
.245 Decoration
.3 Personnel
.32 Trustees Directors
Body responsible for policy, funds, appointments
.33 Administration Supervision
.332 Pastor Associate pastor

268.333 **Superintendent Associate or assistant superintendents**
2 Relation to pastor
3 " " church aims
4 " " congregation
5 " " school
52 Relation as chief executiv
53 " to teachers
54 " " pupils
55 " " Sunday school exercizes
·334 **Secretarial force**
2 Registrar
3 General secretary
4 Report secretary
5 Custodian of supplies
6 Superintendent of absentees
·335 **Treasurer**
·336 **Librarian**
For library see 027.831
·337 **Chorister**
For music see 783.7
·338 **Director of hand work**
·339 **Other**
·34 Committees
Publicity, reception, welcome, evangelism and home cooperation, social lite and recreation, special days, music, library
·37 Teachers
·371 **Qualifications Personality**
·372 **Need of training; kind, amount**
·373 **Examination Certificates**
·374 **Appointment Organization of teaching force**
·376 **Promotion Salary Amount of servis**
.4 School organization
.42 Membership
·422 **Extension department**
District plan, permanent visiting committee, house to house visiting
·423 **Welcome committee at church servises**
·424 **Securing new scholars**
Members of school bring new scholars
·43 Teaching departments
·432 **Children's division**
Cradle roll, birth–3 yrs; beginners dep't, 4–5 yrs; primary, 6–8 yrs; junior, 9–12 yrs
·433 **Young people's division**
Intermediate dep't, 13–14 yrs; senior, 15–17 yrs; young people's, 18–24 yrs
·434 **Adult division**
Men's dep't; women's dep't; parents training clas
·435 **Home departments**
Domestics, invalids etc.: i. e. those carrying on regular Sunday school course but prevented from attending
·436 **Correspondence courses**
·437 **Special classes**
Army, navy, special types, races, etc.
.44 Grading Graded school
.45 Scholarship records Marking sistem
.46 Examinations Promotions
.47 Certificates Diplomas

268.48 Outside activities
For discussions of relation of Sunday school to church, community, weekday schools, fisical activities, clubs etc.
.5 Disciplin Incentivs
.51 Rules
.52 Attendance Tardiness Absence
Help of home influence; invitations and reports to parents. Follow-up cards. Attendance charts
.53 Rewards Inducements
Prizes, decorations. Printed honor roll. Cards to be redeemd with reward. Special holiday or summer plans
.54 Punishment Penalties
.6 Sistems Methods of instruction and study
.61 Lesson sistems
.62 Textbook method Graded subject matter
.63 Lecture method
.635 **Visual instruction**
2 Stereopticon lantern and slides
3 Motion pictures: travel, missions
4 Pictures
5 Charts
6 Maps
7 Blackboard
.64 Inductiv method
.65 Question and anser method Reviews
.66 Heuristic or source method
Use of Bible, catechism, church doctrin
.67 Dramatic interpretation of Biblical events
See also 244 Religious miscellany; 792.1 Passion plays; 822.1 Erly English drama
.68 Manual work
.682 **Note-book work**
Copying or original; titles or verses describing pictures; written ansers to questions; historical outlines; thesis work
.683 **Geografy work**
Maps: line work, map marking, modeling in clay and pulp
.684 **Illustrativ work**
Picture books; simbolic and descriptiv drawings; sand-table picture work; constructing models of life and customs
.685 **Decorativ work**
Designing, lettering, illuminating
.687 **Museum work**
Collecting and constructing illustrativ material
.69 Other
.7 Servises
.72 Order of servises
.73 Music and worship
.75 Rallies
Rally day, children's day, parents' day
.76 Anniversaries Special days and festivals
Christmas, Lent, Easter, Thanksgiving
.77 Vacations
.8 Sunday schools of various denominations
Subdivided like 280
269 Revivals Retreats Parish missions

270 General history of Christian church

Ancient period: to conversion of Germans

See 281.1–281.4, for collected works of early theologic writers, etc. 270 is for religious history of these *periods*
For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2

.1 **Apostolic Nativity to Constantine**

.2 **Period of ecumenic councils Centralization 325-787**
The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity

.21 First of Nice A. D. 325
.22 First of Constantinople 381
.23 First of Ephesus 431
.24 Chalcedon 451
.25 Second of Constantinople 553
.26 Third of Constantinople 680–81
.27 Second of Nice 787

Medieval period: Charlemagne to Luther

270.3 **Charlemagne Papacy vs empire 787–1054**
Church planted among the Germans. Feudalism. Great schism, east vs west, 1054

.4 **Hildebrand Roman supremacy 1054–1200**
Temporal power. Scholasticism. First 3 crusades

.5 **Later medieval Renaissance 1200–1517**
Innocent 3. Papal schism. Avignon. Nominalism *vs* realism. Greek church under Moslems. Education. Arts. Inventions Pre-reformation

Modern period: Reformation to present

.6 **Reformation Counter reformation 1517–1648**
Council of Trent, A. D. 1545–63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious wars. Jesuit missions in east. See also reformation in England, etc. 274.2

.7 **Peace of Westphalia to French revolution 1648–1789**
Union of church and state. Deism. Materialism

.8 **Modern Rationalistic 1789–**
Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions

271 Religious orders

Including monasticism, monastic foundations, monasteries
See also 255 Brotherhoods; 726.7 Architecture of monasteries, etc.

.1 **Benedictines founded 529**
.12 Cistercians " 1098
.125 Trappists " 1150
.13 Olivetans
.2 **Dominicans " 1170**
.3 **Franciscans " 1182**
.31 Original order, not divided
.32 Conventuals

271.33 Observantines
.34 Récollets
.35 Alcantarines
.36 Capuchins founded 1525
.4 **Augustinians " 1256**
.5 **Jesuits " 1540**
.6 **Passionists, 1720 Redemptorists, 1732**
.7 **Lesser Roman orders**
.71 Carthusians, founded A. D. 1086
.73 Carmelites 12th century
.75 Sulpicians, 1642
.76 Oblates
.77 Lazarists, 1624
.78 Christian Brothers, 18th century De la Salle
.79 Other lesser Roman orders
.8 **Nonroman brotherhoods**
Divide like 280 (except 282, which is provided for under 271.1–.7)
.9 **Sisterhoods**
.91 Sisters of Charity Vincent de Paul founded A. D. 1629
.92 Sisters of Mercy Augustinian " " 1831
.93 Ladies of the Sacred Heart Jesuit " " 1800
.94 Sœurs de bon Secours Nurses
.95 Little Sisters of the Poor
.96 Contemplativ Cloisterd nuns
.97 Other Roman sisterhoods
.971 Carmelites
.972 Second of St Dominic
.973 Franciscans
.974 Ursulines A. D. 1537
.975 Of the Visitation " 1610
.976 Of St Joseph " 1650
.977 Of the Presentation " 1777
.98 Nonroman sisterhoods
Divide like 280 (except 282, which is provided for under 271.91–.97)
.99 Other protestant orders Deaconesses (Kaiserwerth)

272 Persecutions

See also special sects, 280; and history of special countries, 940–999

.1 **Apostolic church by imperial Rome 1st–4th century**
.2 **Heretics by Inquisition or Holy Offis Since 1470**
.3 **Waldenses and Albigenses 11th–12th century**
By Roman church. See also 284.4, Protestant sects
.4 **Huguenots French protestants**
By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685
See also 284.5 Protestant sects
.5 **Molinists and Quietists**
By Roman catholics. Close of 16th century to destruction of Port Royal, A. D 1709. See also 273.7 Heresies

272.6 **Marian** **Anglican reformers by Mary** **A. D. 1553–58**
.7 **Elizabethan** **Later 16th century**
Persecution of Roman church by Anglicans
.8 **Quakers** **Baptists** **Witches** **Later 17th century**
Persecutions by puritans. See also 133.4 Witchcraft
.9 **Other persecutions**

273 Heresies
For the history of special doctrins see 230–239, Doctrinal theology
.1 **Gnostic** **First 3 centuries**
Reaction of pantheism and heathen philosofy on Christianity. See also 189.1 Gnostic philosofy; 186.4 Neo-Platonism; 239.4 Apologetics
.2 **Manichæism** **Parsee dualism** **3d century**
Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 289.8 Shakers, Mystics
.3 **Sabellian**
That the Trinity is not of persons, but of successiv manifestations. About 250 A. D.
.4 **Arian** **Denying divinity of Christ** **4th century**
.5 **Pelagian** **5th century**
Denying original sin and supernatural grace
.6 **Antinomian** **16th century**
Denying force of law, under Gospel dispensation
.7 **Molinist and Jansenist** **Pietists** **A. D. 1580–1700**
Port Royal. Augustine's doctrin of grace *vs* the Roman doctrin of good works
.8 **Agnostic**
Denying possibility of revelation. Holding that theology and the supernatural lie outside the domain of human knowledge. See also 149.7 Philosofy; 211 Atheism; 239 Apologetics
.9 **Minor heresies**

274–279 General church history by countries
274–279 is divided geograficly like 940–999

280 Christian churches and sects
281.1–289.8 may be subdivided where needed like 940–999

281 Primitiv and Oriental churches
See also 270.1–270.3, Early religious history
.1 **Apostolic church, to time of great schism, A. D. 1054**
Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books
.2 Primitiv apostolic, to end of first century
.3 Ante-Nicene, A. D. 100-325 See also 270.1
.4 Post-Nicene, A. D. 325–1054 See also 270.2–.3
.5 **Oriental churches**
.6 Monophysite Eutychian
.62 Armenian
.63 Jacobite
.7 Coptic Abyssinian
.8 Nonmonophysite Nestorian
.9 **Eastern or Greco-Russian or Holy orthodox church**
The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

282 Western or Roman catholic church
Divided geograficly like 940–999

283 Anglican and American P. E. church
Divided geograficly, when needed, like 940–999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

284 Continental protestant sects Protestantism
.1 **Lutheran**
.2 **Calvinist** **Zwinglian** **Reformd** See also 285 and 286.1
.3 **Hussites** **Anabaptists** **Leyden** See 286.1
.4 **Albigenses** **Waldenses** **Vaudois** See 272.3
.5 **Huguenots** See 272.4
.6 **Moravian**
.7 **Scandinavian** **Swedish**
.8 **Modern schisms in Catholic church**
.81 Old catholic
Here ar clast those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects
.82 Gallican schismatics Constitutional church
.83 Little church of France
Those who do not recognize the concordat (anti-concordataires)
.84 Jansenists
See also 273.7 Jansenist heresy
.9 **Other**

285 Presbyterian Reformd Congregational
Next 2 subdivisions are sectarian, not geografic
.1 **Presbyterian church in America**
Subdivided geograficly; e. g. 285.173 Presbyterian church in United States 285.175 Southern presbyterian church
.2 **Presbyterian church in Great Britain**
.3 **Cumberland presbyterian**
.4 **United presbyterian**
.5 **Reformd presbyterian**
.6 **Minor presbyterian sects**
.7 **Reformd (Dutch) church in America** e. g. 285.77471, in N. Y. city
.8 Congregational
.9 Puritanism

286 Baptist Immersionist
.1 **Calvinistic or Regular**
Including Arminian or general baptists, reunited with Calvinistic in 1891
.2 **Free wil**
.3 **Seventh day**
.4 **Old school (Primitiv, Antimission or Hardshel)**
.5 **Other baptist sects**
May be clast if preferd with any of the larger sects which they most closely resemble or of which they ar offshoots
.6 **Disciples (Campbellite or Christian)**
.7 **Adventists**
.9 **Other immersionists**

287 Methodist
.1 Wesleyan methodist
.2 Calvinistic methodist
.3 Welsh Calvinistic methodist
.4 Primitiv methodist
.5 Primitiv Wesleyan
.6 Methodist episcopal
.7 Methodist protestant
.8 African methodist
.9 Minor methodist sects

288 Unitarian Socinian Antitrinitarian
See also 273.4

289 Other Christian sects
.1 Universalist
.2
.3 Mormon
.4 New church or Swedenborgian
.5 Christian science
.6 Quaker Friends Hicksites
.7 Mennonite
.8 Shaker Mystic For Mystic heresy see 273.2
.9 Other Christian sects

290 Nonchristian religions

Including comparativ religion and general histories of religion where an equal or minor place is given to Christianity

291 Religious topics of general nature Comparativ mythology

Subdivisions given below ar for general works on these topics. Material relating to a special religion should generally be elast with that religion

.1 General ideas
.12 Religious emotions
Awe, veneration, submission, confidence, love, etc. See also 157 Emotions, in psychology
.13 Comparativ mythology
The myth: its constituent elements, growth and changes in form
.14 Clasification of religions
Monotheistic, polytheistic, mystic, reveald, etc.
.15 Genealogic connection between religions
.16 Attitude of religions to each other Tolerance
.17 Relations between religion and science, art and morals
.2 Religious doctrins Dogmas Theology
.21 Divinities
Object of religion. Worship of various divinities. Special myths. Functions of gods. Worlds of gods and spirits.
.211 Animism, spiritism, fetishism, totemism, polydemonism

291.212 Naturism
Adoration of the forces of nature and personified objects and phenomena Nature myth
1 Mountains and rocks (litholatry)
2 Water (hydrolatry)
3 Plants and trees (dendrolatry)
4 Animals: dog, crocodile, serpent, birds (zoolatry)
5 Atmosferic fenomena: atmosfere, rain, clouds, winds, lightning, thunder etc. (meteorolatry)
6 Fire (pyrolatry)
7 Celestial bodies: sun, moon, stars etc. (astrolatry)
8 Sky and earth (ouranolatry and chthonism)
.213 Worship of human beings (apotheosis)
Demi-gods, heroes, saints, absolute monarchs
4 Worship of ancestors
Domestic worship, manes, lares, penates
5 Worship of the ded (necrolatry)
.214 Gods
Personified abstractions and divinities considerd as pure spirit
.215 Hierarchy of gods
Servants and messengers of divinity
.216 Demons and evil spirits
.217 Strife among the gods and between gods and men
.218 Images of divinity Idolatry
.3 Forms of worship Religious practises
Liturgy, etc.
.35 Sacred places
Holy places, altars, temples, pagodas, woods and groves, sacred grottos and streams, holy cities and villages
See also 726 Religious architecture
.37 Symbolism
General and nonchristian
.6 Religious organization Sacred persons Religious men
.61 Representativs of divinity
Incarnation, priesthood, priests. Ministers of worship and other mediators. Recruiting of the clergy. Types of priests. Theocracy, hierarchy. Messiah
.62 Men endowed with supernatural power
Thaumaturgists, sorcerers, magicians, exorcists, charlatans. Relation between priesthood and sorcery
.63 Divinely inspired men Profets
.64 Interpreters of divinity
Revelation of truth and of divine wil. Sacred writers. Religious law givers, founders of religions, religious reformers and apostles
.7 Deeds inspired by religious motivs
Religious wars, warlike or peaceful propagandism (see also 172.4 Peace and war, in ethics). Home and foren missions
.8 Sources of religion
Sacred books; oral traditions; ecclesiastic decisions

292 Greek and Roman religion and mythology

293 Teutonic and Northern religion and mythology

294 Brahmanism Buddhism
Also religions derived from them. For other Indic religions, see 299.11. See also 891.2 Sanskrit literature; 177.5 Caste
.1 **Vedic religion**
.2 **Prebuddhic Brahmanism**
.3 **Buddhism**
.31 Buddhism of the south
.32 Buddhism of the north Lamaism
.4 **Jainism Sect of Jainas**
.5 **Hinduism**
Changes introduced into Brahmanism during and after struggle with Buddhism
.55 Various sects of Hinduism
.551 **Cakta sect Worship of the Caktis**
.552 **Brahmo Somaj sect**
.553 **Sikhism**
295 Parseeism Zoroastrianism Mazdaism Mithraism
For other Iranic religions, see 299.15. See also 891.52 Zend literature
296 Judaism For other Semitic religions, see 299.2
297 Mohammedanism
298
299 Other nonchristian religions
Subdivided ethnicly like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158

Social Sciences

300 Social sciences Sociology in general

301–309 all hav Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms ar limited to one division; e. g. to Political economy, Education, Law, etc. All these hav the same subdivision of General works; i. e. essays on the various divisions ar 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any clas number shows the subject to be general, not specific

301 Sociology: philosofy, theories
See also 901 Philosofy of history; 320.1 Theory of state
.1 **General conception**
Nature and caracter, definition, limits and extent
.15 Social psychology
Individual and group interstimulation, institutions as cultural stimuli, social forces and responses, collectivistic mentality, complex behavior. See also 136.27 Social influences on mental characteristics, 390 Custom, fashion, conventionality
.151 Psicologic background
Considerd with relation to social science. Instincts, emotions, intelligence, imitation, suggestion, etc. Divided like 150, e.g. 301.1517 Emotions
.152 Group unity and continuity
2 **Group morale**
Coordination, group loyalties, etc. See also 320.158 Political loyalty, patriotism
3 **Group or social control**
Social pressure, control exerted by groups, propaganda; for police control of groups sce 351.752. See also 323.4 Individual rights
.153 Group activities and changes
2 **Conflict**
Interference, opposition, discussion. See also 323.2 Revolutions, riots, etc.
3 **Compromize**
Modification, accommodation
4 **Assimilation**
5 **Social or institutional progress**
Socialization, culturalization, culture, reform, social ideals
6 **Disintegration**
Maladjustment, reversion, decadence
.154 Public or group opinion
.155 Leadership and prestige
.158 Special groups
2 **Crowds Mobs**
See also 323.2 Revolutions, riots, etc.
3 **Assemblies**
Meetings, committees, audiences, etc.
4 **Youth**
See also 369.4 General young people's societies

302 Compends, outlines
303 Dictionaries, cyclopedias, etc.
304 Essays, lectures, addresses
305 Periodicals, magazines, reviews
306 Societies: transactions, reports
307 Study and teaching See also 370 Education

308 Polygrafy: collected works, extracts, etc
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of social science
.1 **Social surveys**
Divided like 930-999 and including general works on social conditions in special countries. May, if preferd, be clast in 913–919 or, if strongly historical, in 930–999. For general histories of civilization see 901

310 Statistics

311 Theory, methods Science of statistics
.2 **Methods, procedure, technic Preparation of statistics**
.21 General questions
.22 Collecting
.23 Analysis Testing Verifying
.24 Arrangement Clasification Tabulation
.25 Correlation
.26 Forms of presentation
Diagrams and cartograms; grafs; frequency tables; index numbers
.3 **Organization and direction of official statistics**
.39 By country
Subdivided like 930-999
.4 **Organization and direction of unofficial statistics**

312 Demografy Population
Distribution and progress of population. General enumeration and census. Vital statistics (may be clast here or under 614.1 Public helth, as preferd). See also 323.3 Social classes, 325 Migration, colonization, 364.42 Crime prevention by control of population
.1 **Births and birth rates Natality**
Fecundity and sterility (see also 612.663 Phisiology of fecundity, 616.69 Functional diseases of male generativ organs, 618.17 Gynecology). Limitation of birth rate, Malthusianism, etc. (For birth control see also 173.3 Ethics, 612.63 Phisiology, 613.94 Eugenics). Illegitimacy (see also 347.6 Family law, 362.72 Child care)
.2 **Deths and deth rates Mortality**
Stilbirths (see also 618.39 Pregnancy); infant mortality; longevity (see also 612.68 Phisiology of longevity). Mortality from special causes: disease, accidents, murder, suicide, etc. Mortality and survival tables; determination of mortality rates (see also 368.31 Life insurance, 519.5 Life contingencies)
.3 **Sickness and sick rates Morbidity**
Incidence of disease. See also 616–618 Pathology
.5 **Marriages and marriage rates**
Celibacy, proportion of unmarrid persons. Separation, divorce (see also 173.1 Family ethics). See also 392.5 Marriage customs
.6 **Phisical condition of population**
Somatologic statistics: stature, helth, phisical infirmities, etc. See also 572 Ethnology, 573 Somatology
.7 **Moral condition of population**
See also 170 Ethics, 364 Criminology
.8 **Progress of population**
Population changes: increase, overpopulation; decrease, depopulation
.9 **Distribution and composition of population**
According to origin or nationality, sex, residence, language or race, age, occupation, social status, education, religion, etc.

313 Special topics

May be divided like the whole classification. But see note under 314–319 below

314-319 General statistics Divided geograficly like 940-999

The statistics of any special matter ar put with the subject, e. g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic ar divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicin in New York would be put with 610 Medicin; i. e. the topic outranks the locality

320 Political science

.1 **Theory**
.11 Origin of the state
.12 Nation and territory
.121 Ethnografic
People of same race comprise the nati n
.124 Geografic
Unity of territory
.126 Expansion Acquisition of territor
1 By discovery
3 " occupation and possession
5 " cession Annexation
7 " purchase or exchange
9 " conquest or revolution
.127 Alienation of territory
.128 Frontiers Boundaries
1 Natural boundaries
2 Mountains
4 Rivers
6 Lakes
8 Coast
9 Artificial boundaries
.15 Nature, entity, concept of the state
.151 Juridic theory
.152 Political theory
.153 Social and evolutionary theories
.154 The state as a moral organism
.157 Soverenty
See also 341 International law
.158 Allegiance Loyalty, etc. Patriotism
See also state ethics 172.1 Duties of citizens
.159 National growth and decay
.18 Symbolism, emblems: arms, flag, seal, etc.
Better clast in 929.8 and 929.9 Heraldry
.2 **Compends, statecraft**
.3 **Dictionaries**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Education**
.8 **Polygrafy**
.9 **History of political science**, divided like 930–999

321 Form of state

.01 **Simple state Soveren state**
.02 **Mixt state**
.021 Federal state Bundestaat Federation
.022 Confederation of states Staatenbund
Union of soveren states Alliance

321.023 Suzerain states
.025 Semisoveren, dependent and vassal states
.026 Mediatized state
.027 Protected state
Protectorates, spheres of influence
.028 Vassal states
.03 **Empire, imperialism**
.04 **World state**
.041 Internationalism
.07 **Ideal state Utopias**
See also 335 Communism and socialism
.09 **Change of form of state**
.092 Revolution
.094 Coups d'état
.1 **Family Patriarchal age**
.2 **Tribes Clans Marks Village communities**
See also 333.2 Community ownership of land
.3 **Feudalism**
.4 **Democracy** Pure; e. g. Athens, town meeting
.5 **Aristocracy** e. g. Italian republic; medieval German cities
.6 **Absolutism** Absolute monarchy, dictatorship
.7 **Constitutional monarchy**
.8 **Republic** Modern democracy, delegated powers

322 Church and state

See also 172.3, State ethics; 261.7, The church
Political aspects of combination or separation of state and church affairs

323 Internal relations with groups and individuals

.1 **Movement and questions of nationalities, races and languages**
Divided by country like 930–999; e. g. struggle of nationalities in Austria 323.1436
For immigrant nationalities in a country see 325
.2 **Political struggles and troubles**
Revolutions, revolts; riots, uprisings. See also 321.09
.3 **Social groups**
Classes, orders, estates
.31 Nobility, aristocracy; welthy clas
.32 Middle clas, bourgeoisie
.33 Proletariat, laboring classes, pesantry
See also political economy, 331.8 Laboring classes
.34 Serfs Villenage See 326.3 Serfs and serfdom
.35 Communities
.352 Urban .354 Rural
.353 Suburban
See also 630.1 Rural life. Clas in 323.354 material dealing with community life in rural sections, in 630.1 material dealing with life and interests of individuals and families
.4 **The state and the individual**
Natural rights, individual rights, individualism
.41 Equality of individuals, races, etc.
.42 Equality before the law; justis, etc.
.43 Life
.44 Liberty
.441 Freedom of action

323.442 Freedom of conscience
.443 " " speech
.444 Academic freedom See 378.121 Freedom of teaching
.445 Freedom of the press
See also Journalism 070.13; Administration 351.751
.446 Freedom of drama
.447 " " art
.45 Family
.46 Property
.47 Right of assembly, association
.48 Right of petition
.49 Limitation and suspension of individual rights and guaranties
.491 Martial law
.492 State of siege
.6 Citizenship
.61 Laws Divided by country like 930–999
.62 Naturalization
.63 Alien races and citizenship
.64 Loss and restoration of citizenship
.65 Duties and obligations of citizens
Scholar as citizen
.67 Rights of aliens
.68 Eligibility to offis

324 Suffrage Elections

.1 Qualifications, conditions and bases
For sex see 324.3 Woman suffrage
.11 Age
.13 Property
Household suffrage
.14 Education Competency Capacity
.15 Nationality Race Religion
.16 Residence, domicil
Length of residence
.162 Voting by soldiers
.164 " " students
.17 Exclusion from and suspension of suffrage
.171 Incompetency, incapacity
Insane, idiots See also 324.14
.172 Bankruptcy
.173 Pauperism
.174 Conviction of crime; bribery, selling vote
.177 Government servis
Military servis: soldiers and sailors
Civil servis, police offisers
.178 Other special classes
Students, domestic servants, etc.
.2 Forms of suffrage Systems Voting, etc.
.21 Electoral systems
.211 Universal suffrage
.212 Partial suffrage, limited
.213 Plural vote

324.214 Clas vote, clas system
.215 Compulsory voting
.216 Short ballot
Aiming to reduce number of electiv offises
.22 Constituencies and representation of interests
.221 Single member constituency
Scrutin d'arrondissement
.222 Multimember constituency
Scrutin de liste, block vote, general ticket
.223 Minority representation
Single vote, limited vote, cumulativ vote, proxy system
.224 Proportional representation
Preferential: alternativ, contingent, transferable vote. Quota: simple Droop, d'Hondt, substitute or Gove method. Graduated system. List system. For second ballot see 324.248
.227 Economic and social groups
.23 Selection of candidates
Declaration and presentation of candidacy
.231 Nomination of candidate
.233 Party organization Conferences
.235 Caucus primary
.237 Direct "
.239 Platform
.24 Voting procedure
.241 Electoral lists: formation, revision
.242 Registration system
Poll lists and tally sheets
.243 Jurisdiction Examination of credentials
Appeal, petition
.244 Open voting
.245 Secret ballot
.246 Voting place
.247 Absent voting Voting by mail
Traveling salesmen, railway employees, mail clerks etc.
.248 Second ballot
.249 Indirect voting Electoral college
.25 Ballot
.251 Unofficial
.252 Official
.253 Party ballots
.254 Blanket ballots
255 Party colums
.256 Offis groups Australian ballot
.257
.258 Voting machines
.26 Results and announcements
Inspectors of election, meeting, etc.
261 Count of ballot
.262 Majority elects Absolute majority
.263 Plurality " Relativ majority
.268 Announcement of vote

324.27 Corruption Electoral fraud

.271 Bribery and undue influence: intimidation, selling votes

.272 Fraud in voting: personation, repeating, illegal voting, colonizing

.273 Election contributions and expenditures
Limitations on expenditures; publicity. Restriction on contributions; political assessments

.274

.275 Fraud in counting
Miscount of ballots; certification of false returns

.276

.277 Election contests

.28 Suffrage reform

.3 Woman suffrage

.4-.9 Suffrage by country
Divided like 940–999

325 Migration Colonization

See also 312 Demografy, 364.42 Crime prevention by control of immigration and emigration, 572.3 Migration in Ethnology. For complete list of form divisions see Table 2 following Relativ index

.1 Immigration Immigrants
Under following subdivisions clas material dealing with special features of human migration in general, as wel as with immigration. For immigration to a special country see 325.4–.9. See also 323.6 Citizenship, 364.256 Immigration and crime

.11 General questions

.12 Types of migration
Intercontinental, interracial; international, internal; from country to city, rural depopulation; from city to country, rural rehabilitation. Permanent, temporary, seasonal. Individual or family; collectiv, transfer of populations, group migration. Voluntary; involuntary, exiles, refugees, deported prisoners of war, deported criminals; etc.

.13 Causes Purpose
Phisiografic; climatic; economic, food supplies, commercial relations, overpopulation; political; religious; social; hostil invasions, conquests; disasters, fires, epidemics, floods, etc.

.14 Effects of immigration
On immigrant, on country of settlement. See also 325.314 Effect of colonization on country colonized

.15 Regulation Control
For general discussions of immigration and the state, official organization of immigrant service and official treatment of immigrants. For official immigration buros and departments use 325.1061

.152 Inspection Registration

.153 Fees, capitation, hed tax, etc.

325.154 Restriction Exclusion Selection
Quota system, etc. Tests and bases of exclusion or selection; deportation

.16 Promotion and assistance Protection Abuses
Information, sanitary and medical services; exploitation. For manuals of general information needed by immigrants use 325.102, for commercial immigration agencies use 325.1065. See also 360 Welfare associations, 614.86 Protection of travelers

.17 Distribution Transportation
Migration routes, natural aids and barriers to migratory movements. Control of distribution, official or unofficial. Means of distribution

.18 Assimilation of immigrants Amalgamation
For assimilation in special countries see 325.4–.9, e.g. 325.73 Americanization. See also 323.62 Naturalization

.19 Other topics

.2 Emigration Emigrants
Divided only geografically by country of origin like 930–999, thus bringing together material on emigrants of a special country or race, e.g. Chinese emigrants 325.251. May be further subdivided after 09 by country of settlement, e.g. Chinese emigrants in Mexico 325.2510972. Material on emigrants is usually most important in respect to country of origin, so is best clast in 325.2. Most libraries wil hav little except on immigrants to their own country, hence in United States 325.2 wil relate almost wholly to specific nationalities in United States, e.g. 325.26 Negro question. For immigrants in a special country irrespectiv of origin see 325.4–.9

.21 General questions
May be divided like 325.1 (see examples below). For types of migration see 325.12; for causes see 325.13

.214 Effects of emigration
On country of origin; for effects on emigrant and on country of settlement see 325.14

.215 Regulation Control Restriction
Emigration and the state. For official emigration buros and departments use 325.2061

.216 Promotion and assistance Protection Abuses
For commercial emigration agencies use 325.2065, manuals of general information needed by emigrants 325.202. See also 325.102 for manuals for immigrants

.3 Colonization Colonies
Activ promotion and establishment of colonies or settlement of foren possessions, also discussions of special aspects of groups of colonies. Divided only geografically by mother country like 930–999, e.g. 325.342 British colonies. This brings together colonies planted by a special country. May be further subdivided after 09 by country of settlement, e.g. 325.342096 British colonies in Africa. For colonies in a special country irrespectiv of origin see 325.4–.9

325.31 General questions
For types of migration see 325.12; for causes see 325.13

.312 Types of colonies
Colonies of migration, 'swarm colonies'; colonies of expansion; economic colonies, commercial settlements, concessions, establisht by government or by private enterprize, proprietary colonies; colonies of exploitation, governmental or private; military colonies, strategic posts; protectorates, dependencies, mandates, spheres of influence (see also 321.027 Form of state); penal colonies, etc.

.314 Effects of colonization
On mother country, on country colonized. For effects on colonist see 325.14

.315 Organization Administration
Acquisition and settlement (see also 320.126 National expansion). Relations with nativ races; nativ autonomy, chieftainships, nativ councils. Public domain, administration of vacant lands. Types of colonial government

.316 Promotion and assistance Abuses
For official colonization buros and departments use 325.3061; for commercial colonization agencies use 325.3065

.317 Colonial empire Colonial federation
Imperialism; see also 321.03 Form of state

.4–.9 in special countries
Both immigration and colonization divided like 940–999 by country of settlement; e.g. 325.73 Foren population of United States; Americanization (see also 331.86 Industrial nationalization). For ancient countries 325.093 may be used, e.g. 325.0938 Immigration and colonization in ancient Greece. For source of immigration see 325.2, of colonization 325.3

326 Slavery Serfdom Emancipation
See also 973.7 Civil war; 371.974 Education of freedmen

.1 Slave trade
.2 Coolies and contract slaves
.3 Serfs and serfdom
.4 Antislavery documents
.5 " periodicals
.6 " societies
.7 Proslavery
.8 Emancipation and freedom
.9 History of slavery Divided geograficly like 930–999
.92 Biografy of slaves

327 Foren relations
Divided like 930–999. May be further subdivided after 09 (for Ireland and U. S.) or 009 (for all other countries) by a second country; e.g. 327.730944 Foren relations of U. S. with France, 327.4200944 Foren relations of England with France

328 Legislation Lawmaking Legislativ bodies
Legislativ annals

.1 Parliamentary law

328.2 Legislation
.21 Interpretation of law
.22 Uniform laws
Uniformity of law on same subject in different states or countries
.23 Codification
.24 Policy Tendencies
.241 Overlegislation
.243 Special legislation For private and local bills see 328.378
.25 Legislativ powers
.251 Juridic "
.252 Executiv "
.253 Implied "
.256 Restrictions and checks on legislation See also 328.349
.26 Direct legislation
.261 Initiativ
Voters by petition originate legislation
.264 Referendum
.27–.29 Subjects of legislativ action Divided like 351.7–351.9

.3 Legislatures

Summary

328.3 Legislatures
.31 Upper house
.32 Lower "
.33 Membership Election
.34 Prerogativs and powers
.35 Sessions
.36 Internal organization and disciplin
.37 Legislativ procedure
.39 Form of legislature

.31 Upper house
.32 Lower "
.33 Membership Election
.331 Conditions of membership, eligibility
Age, residence, property Membership without voting power
.332 Exofficio members
1 Cabinet and government offisers
2 Expresidents
3 Other exoffisers
4 Clergy, bishops
.333 Compensation
Annual salaries, per diem payment. Milage, traveling expenses. Special sessions. See also 328.347 Privileges
.334 Representation
1 **of states**
2 **territories**
3 **colonies and dependencies**
4 **classes**
Universities, landowners, Irish and Scotch peers
5 **election districts Apportionment**
Equalization of representation; unfair apportionment; 'rotten boros'; reapportionment
6 **Gerrymandering**
9 **Number of members**

328.335 Methods of appointment Election
1 **Appointment by government or crown**
For life or for a term
2 **Hereditary right**
3
4
5 **Election by direct vote: plurality or majority**
6 **Length of term**
Entire or partial renewal of membership; holdover member
7 **Vacancies, resignations**
Method of filling vacancies; special elections
8 **Contested elections**
.338 Official membership lists, directories
.339 Unofficial lists or directories
.34 Prerogativs and powers Restrictions
.341 Power over revenue and appropriation
.342 " to judge of elections
.343 " over members
Power to investigate or punish members
.344 Power of expulsion
.345 " over nonmembers
Power of investigation for impeachment, see 351.96–.99
" to imprison citizens
.346 Treatymaking power
.347 Privileges
Franking privilege, postage and stationery; railroad passes; free distribution of books
.348 Immunities
From arrest
.349 Restriction
Offisholding Instructions by electors
Direct mandate See also 328.26 Direct legislation
.35 Sessions
.351 Method of summoning
Parliamentary writ
.352 Date of session
Fixt or movable
.353 Frequency of sessions
Annual, biennial, quadrennial
.354 Length of session Life of legislature
.355 Recess
.356 Adjournment Prorogation Dissolution
.357 Executiv session: procedure
.358 Special session Extra session

328.36 Internal organization and disciplin
Verification of powers, credentials
.361 Oath of offis
.362 Offisers: appointment, election
1 **Presiding offiser, speaker**
2 **President protem**
3 **Secretaries, clerks**
Bill clerk Enrolling, engrossing clerks
4 **Sergeant at arms**
5 **Pages, messengers, door keepers**
6 **Payment of employees: gratuities, fees, extra pay**
Unnecessary attendants
7 **Committees**
Standing, special, joint
8 **Special commissions**
For investigation, not administrativ commissions
.363 Records
.364 Supplies: daily papers, postage stamps
Telegraf and telefone bills
.365
.366 Disciplin: suspension, investigation
.367 Bribery Illegal practises
Graft bills, blackmail
.368 Lobbying
Including that by heds of depts and institutions
.37 Legislativ procedure
.371 Rules, manuals
See 08 under 328.4–.9 divided by country
.372 Petition, addresses
Parliamentary inquiries, commissions
Recommendations from executiv
.373 Bills
Technic: bill drafting, introduction
Printing, enrolling, engrossing
.374 **Action by legislature before passage**
1 Readings: 1st, 2d
2 Reference to committees
Committee work or procedure: investigation, hearings, conferences
3 3d reading
4 Contest over passage
5 Party caucuses, logrolling
.375 **Final passage**
Rules committee, 'lifting' committee, 'steering' committee
Vote: viva voce, by roll call; by ballot; obligation of voting in person, pairing
Required majority. Veto, see 353.03
Passing over veto. Bills left in hands of executiv: 30 day bills, pocket veto
Bills which become law without executiv action
.376 **Special bills**
Financial, omnibus riders
.377 Joint resolutions
.378 Local and private legislation
.379 Procedure in special cases
1 **Impeachment**

328.39 Form of legislature
.391 One chamber
.392 Two chambers
See also 328.31 Upper chamber; 328.32 Lower chamber
.393 Other forms
.394 Reform
.395 Abolition
.4–.9 Of special countries
Divided by countries like 940–999, and under each, works may be divided: 01 Jurnals, 02 Debates, 03 Abstracts, 04 Documents, 05 Rules, 08 Legislativ manuals, 09 History of bodies, but it is recommended that American libraries make an exception for U S and states of U S, by omitting 0 and using, for example, 328.739 History of U S congress, 328.7478 N Y State legislativ manual. For foren countries the 0 is in some cases needed (and it is therefore recommended for uniform use and to prevent possible future, if not present, conflict) because of otherwize conflicting numbers; e. g. unless 0 is used 328.469 might mean either a general work on lawmaking body of Portugal or a history of the lawmaking body of Spain

329 Political parties Party conventions

329.01 U. S. presidential campain documents of all parties, arranged by campains

.1 Federal
.2 Anti-Federal
.3 Democratic
.4 Whig
.5 American Knownothing
.6 Republican
.7
.8 Minor parties
.81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.52 Paper money; .83 Woman suffrage, see also 324.3 Woman suffrage; .84 People's; 85 Labor see also 331.8 Laboring classes
.9 Parties in other countries Divided geograficly like 940–999

330 Economics Political economy

Science of welth. For ful list of form divisions see Table 2 after Relativ index

SUMMARY

331 Labor and laborers
332 Financial economics
333 Land Natural resources
334 Cooperation
335 Socialism Collectivism
336 Public finance
337 Tarif policy Protection and free trade
338 Production Economic organization
339 Capital Distribution and consumption of welth

.1 Theory
.11 General conception
Economic psicology, needs, personal interest
.15 Economic systems Capitalism
For socialism see 335
.151 Mercantilism
Balance of bargain, balance of trade theories; bullionism, cameralism
.152 Phisiocracy
Rule of nature, agricultural system
.153 Classicism Individualism
Laissez faire; Manchester school; neoclassicism, Cambridge or Marshallian economics
.154 Historical school
German revolt against classicism
.155 Universalism Neoliberalism
Romantic and institutional schools
.16 Miscellaneous theories
.161 Theories of welth
Economic goods, services
.162 Theories of value and utility
Labor-cost theory; marginal utility theory, Austrian or psicologic school; service theory. See also 338.5 Prices
.18 Economic methods
.182 Mathematical methods
Mathematical school
.19 Relations to other subjects
May be divided like the whole classification; e.g. 330.196 Tecnocracy

331 Labor and laborers

Employers and capital in relation to labor. For economics of Capital see 339; for industrial personnel management see 658.3. See also Capital in Relativ index following Tables. For complete list of form divisions see Table 2 after Relativ index

SUMMARY

331.1 Relations of capital and labor
.2 Remuneration for work
.3 Labor of children
.4 " " women
.5 Work under certain unfavorable conditions
.6 Pauper labor Cheap foren labor
.7 Different classes of workers Skild and unskild labor
.8 Laboring classes: working conditions, organization, etc.
.9 Other questions

.01 Theory

.011 General conception Nature and character of labor
Freedom of labor, psicology of labor. See also 150 Psicology

.013 Importance, utility, dignity of labor

.016 Miscellaneous theories
Commodity, humanistic, etc. theories

.1 Relations of capital and labor

.11 Labor contracts in general Employment (i.e. engaging workers)
Agreements, recruitment, responsibilities. See also 651.34 Office workers

.112 Labor supply Agencies
For immigration and colonization see 325; see also 331.1151 Employment buros

.113 Classification of work and workers
Direct and indirect; race adaptability; age (see also 331.3 Labor of children); sex (see also 331.4 Labor of women); abnormal, unfortunate: apprentice, handicapt, etc. (See also 331.5 Work under certain unfavorable conditions); aliens (see also 331.62 Cheap foren labor)

.114 Equipment of workers
Mental and phisical qualifications. Personality, character, natural ability, general and professional or tecnical education, experience, tastes, helth, etc.

.115 Selecting workers
Applications; references (see also 331.123 Service records, testimonials); interviews; character analisis; tests: mental (see also 151.2 Psicologic tests), trade, etc.

1 Securing applicants
Employment buros or agencies, labor exchanges; advertizing for workers. For general labor supply agencies see 331.112

.116 Engaging workers
Bargaining: individual, collectiv

331.12 Department organization

.123 Service records Testimonials
See also 331.115 References

.124 Staf Grades Titles and duties
Officers; employes: clerks, stenografers, laborers, etc. Material on positions more prominently provided for elsewhere is better clast under the other number, e.g. bookkeepers 657

.125 Labor maintenance
Follow-up, transfers, promotions, rating of workers

.126 Turnover
Causes, calculations, cost, statistics

.13 Termination of labor Unemployment Reemployment
Causes of termination, warnings, indemnities; cancelation of contract: by employer, layoff, discharge; by employe, quit (see also 331.892 Strikes)

.137 Unemployment
Causes, effects, distribution and incidence. Reduction of unemployment rolls without reemployment; elimination of least fit, advancement of retirement age (see also 331.2544 Social insurance); elimination of young people, prolongation of schooling (see also 331.3 Child labor); elimination of women, back to the home movement (see also 331.4 Labor of women). Irregular or seasonal employment, underemployment. See also 364.26 Unemployment and crime

7 Unemployment relief
Financial aid; aid thru necessaries; furnishing worthwhile employment for idle time, e.g. recreational, educational, etc.; struggle against demoralization and vagabondage of unemployd. See also 331.61 Aid to paupers by furnishing work

8 By industry
82-899 may be divided like 620–699 with 81 divided like the whole classification for other industries; e.g. 331.137822 Unemployment in mining, 331.1378177 Unemployment in photografy

9 By country
Divided like 930–999, e.g. 331.137972 Unemployment in Mexico

.138 Reemployment

.14 Rules for workshop and office employes Incentivs Disciplin
Conversation; personal calls or work; soliciting money, subscriptions, contributions; respect and care for property (tools, etc.); personal appearance, dres, uniforms; courtesy, indifference; suggestion systems; fines, stoppage of privileges or wages (for general question see 331.212). See also 331.9 Encouragements to work, offerd by government, etc., medals, decorations, rewards to workers

331.15 Labor relations within the plant
Prevention and peaceful settlement of differenees. See also 331.89 Disagreements between capital and labor

.151 General questions

.152 Cooperativ management Industrial democracy Representation in industry
Joint board of eontrol, works eouncil, works or shop committees, company unions. See also 335.82 Syndicalism, corporatism

.153 Conciliation

.154 Mediation
Official or unofficial

.155 Arbitration
See also 338.91 Industrial parliamentarism

.156 Joint conferences

.157 Trade agreements

.158 Investigation

.159 Other topics

.16 Jurisdiction over work Industrial and professional tribunals

.17 Patronal institutions favoring the personnel
Clas here only general works, either on patronal institutions as a whole, or on such institutions as a whole of the same establishment. Clas publications on an individual patronal institution in the number for such institution. Funds for pensions and for aid in general; employe stockownership. Patronal institutions in special industries. See also 331.23 Payment in shares, 331.24 Profitsharing

.18 Relations of capital and labor by industry

.182–.1899 may be divided like 620–699 with .181 divided like the whole classification for other industries; e.g. 331.1822 Relations of capital and labor in mining, 331.18177 in photografy

.19 By country
Divided like 930–999, e.g. 331.1972 Relations of capital and labor in Mexico

.2 Remuneration for work
Wages, hire, pay, salary. See also 364.26 Wages and crime, 651.38 Salary, etc. in office economy

.21 General questions

.211 Payment of wages
Payrolls; mode, place, time or frequency of payment, etc.

.212 Stoppage Deduction Withholding
See also 331.14 Discipline by wage stoppage

.213 Preferd claims for wages due

331.214 Wage theories
Statistical data: collection, compilation, use, value, etc. as bases for theoretic study of wages. Wage fund doctrin, residual claimant theory, normal value or exchange theory. See also 331.215 Wage rate theories

.215 Fixing wage rates
Wage fluctuations, raising and lowering wages; relation of wages to supply and demand, to competition; relation of wages to bargaining power, bargaining theory of wages; wage rate theories. See also 331.214 Wage theories in general

3 Relation of wages to production
Marginal productivity or final utility theory of wages

4 Relation of wages to cost of living
Living wage; money wages v. real wages; minimum cost of subsistence theory of wages, iron or brazen law of wages; saving wage. See also 331.831 Cost of living

5 Minimum and maximum wage

.218 Plurality or cumulation of wages
By plurality of employment of single individual (see also 331.65 Abuse of plurality of offices); by earnings of various members of family, wages of husband and wife

.22 Wage scales Scale contracts
Sliding scale; extra pay or wages, efficiency bonus, subsidies, bounties; progressiv wage; family allowance systems. For deductions, stoppage, fines, etc. see 331.14 and 331.212

.23 Bases of wages and kinds of payment
By work done: job, task, piece; by time: hour, day, week, month, year; kinds of payment: truck system, store orders, shares (see also 331.17 Employe stockownership), payment in kind; intervention of middleman: farming out, subcontract, sweting system (see also 331.5 Work under unfavorable conditions, 331.794 Home workers), commissions

.238 Payment by other than employer
Fees, gratuities, tips

.24 Profitsharing
See also 331.17 Employe stockownership, 631.114 Share systems in farming

.25 Pensions Insurance Benefit agencies
See also 368 Insurance

.251 General questions
Voluntary v. compulsory insurance. State or national v. private insurance

.252 Pensions
Sickness, old age, invalidity pensions

.253 Group insurance
See also 331.825 Employer's liability

331.254 Individual insurance
Life insurance, etc.

4 **Social insurance**
Accident, sickness, etc. May be divided like 368.4, e.g. 331.25444 Unemployment insurance. See also 331.137 Unemployment, 331.82 Working conditions, accidents, etc.

.256 Homes for the aged
See also 362.6 Charitable institutions

.258 By industry
2–99 may be divided like 620–699 with 1 divided like the whole classification for other industries; e.g. 331.25822 Pensions and insurance in mining, 331.258177 in photografy

.26 State and wages

.261 Legislation Laws
Divided by country like 930–999, e.g. 331.26171 Wage legislation in Canada

.262 Wages for state labor
See also 331.795 Public service employes

.27 Professional remuneration

.28 Wages divided by industry
.282–.2899 may be divided like 620–699 with .281 divided like the whole classification for other industries; e.g. 331.2822 Wages in mining, 331.28177 in photografy

.29 Wages divided by country like 930–999
E.g. 331.2942 Wages in England

.3 Labor of children
Including adolescents up to 18 yrs, or thru period of compulsory schooling. See note under 331.4. See also 179.2 Cruelty to children, 331.113 Age of workers, 331.137 Prolongation of schooling as unemployment mesure, 331.86 Apprenticeship, 362.7 Child welfare, 364.26 Child labor and crime, 379.14 Working permits in public education

.31 General questions

.32 Wages

.33 Hours
Length of day, night work, overtime, holidays, etc. See also 331.81 Duration of work in general

.34 According to age

.35 Working conditions
Safety, accidents, sanitation, etc.

.38 In special industries
.382–.3899 may be divided like 620–699 with .381 divided like the whole classification for other industries; e.g. 331.387 Child labor in factories, 331.381792 Child actors

331.4 Labor of women
Include here discussions covering both labor of children and of women unless the former topic predominates. See also 331.113 Sex of workers, 331.137 Elimination of women as unemployment mesure, 396.5 Women

.41 Hours
Length of day, night work, overtime, holidays, etc. See also 331.81 Duration of work in general

.42 Wages

.43 Work of marrid women
Of women with child

.44 Work of young women

.45 Working conditions
Safety, accidents, sanitation, etc.

.47 Unemployment
See also 331.137 Unemployment in general

.48 In special industries
.482–.4899 may be divided like 620–699 with .481 divided like the whole classification for other industries; e.g. 331.487 Women in factories, 331.48177 in photografy

.5 Work under certain unfavorable conditions
At reduced wages, unpaid labor. See also 331.113 Unfortunate classes of workers, 331.23 Sweting system

.51 Prisons Convict labor
See also 365.65 Employment of prisoners in general

.52 Reformatories
See also 364.765 Employment of reformatory inmates

.53 Convents Charity workshops (Ouvroirs)
Paying beneficiaries nominal wages and marketing products at prices so small as to lower wages of self supporting workers

.54 Contract labor
See also 331.625 Coolies

.55 Apprentice labor
See also 331.86 Apprenticeship

.56 Peonage Serfs
See also 326.3 Serfs and serfdom in general

.57 Compulsory labor Corvée
See also 331.64 Drafted emergency labor

.58 Slave labor
See also 326 Slavery

.59 Handicapt
Blind, crippld, injured in war, mentally defectiv, etc.

331.6 Pauper labor Cheap foren labor Emergency labor

See also 339.1 Pauperism, 362.51 Pauper asilums

.61 Aid by furnishing work

National workshops; public works; spred of work; colonization systems, subsistance homesteds (see also 362.56 Free workmen's colonies); systems for produeing by pauper labor at least part of goods consumed by themselvs. See also 331.1377 Unemployment relief, 331.9 Right to work, 351.8 Public works administration, 352.5 Municipal public works

.62 Foren workers Immigrant labor

Competition of foren labor, protection of nativ labor. Divided geografically like 930–999; e.g. 331.625 Manual Asiatic labor, coolies (see also 326.2 Coolies and contract slaves). See also 331.113 Alien classes of workers, 331.54 Contract labor

.64 Emergency labor

Voluntary labor, drafted labor (see also 331.57 Compulsory labor), rescue work, use of labor in times of disaster (see also 361.5 Charitable aid in disasters)

.65 Abuse of volunteer service, supernumerary time or service, plurality of offices

See also 331.218 Plurality of wages, 331.814 Overtime

.7 Different classes of workers Skild and unskild labor

Work and workers according to the different occupations, objects of work and economic situation

.71 Intellectual or mental work

Liberal professions; artistic workers (those whose work is not regarded as belonging to the fine arts, i.e. 700, but which is artistic in its character). Clas works on a special profession under 331.76. See also 331.794 Artisans

.76 In special industries

.762–.7699 may be divided like 620–699 with .761 divided like the whole classification for other industries; e.g. 331.763 Agricultural labor, 331.76137 Teachers

.77 Employes

Clas here material too general to go under a more specific number

.79 Miscellaneous workers

.794 Home workers Artisans

See also 331.23 Sweting system, 331.71 Artistic workers

.795 Public service employes: nation, state, city

Employes of public service contractors. See also 331.262 Wages for state labor

.796 Migrant labor

.798 Unskild workers

331.8 Laboring classes

Working conditions, organization, etc.

.81 Duration of work Rest

See also 331.33 Working hours for children, 331.41 Working hours for women

.811 Length of day

8-hour day, 10-hour day, etc. Shifts of work

.812 Night work

.813 Sunday work

.814 Overtime Supplementary hours

See also 331.65 Abuse of supernumerary time

.816 Vacation Leav of absence

.817 Holidays

Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints

.818 In special industries

2–99 may be divided like 620–699 with 1 divided like the whole classification for other industries; e.g. 331.81822 Duration of work in mining, 331.818177 in photografy

.819 In special countries

Divided like 930–999, e.g. 331.8198 Duration of work in South America

.82 Working conditions Places of labor

See also 331.2544 Social insurance, 613.6 Hygiene, 614.8 Protection of life, 622.8 Mining hazards

.821 Dangerous, uncomfortable, unhelthful quarters

.822 Industrial hygiene Medical supervision Prevention of occupational diseases

Phisical examination, hospitals, nursing, surgical aid, first aid (better clast under 614.8), dental work; in special industries. See also 331.827 Improvement of working conditions in factories, stores, offices, etc.

.823 Safety Accidents Occupational hazards

Causes of accidents, safety committees; preventiv and protectiv safety mesures (better clast under 614.8): education, safety devices, etc. Responsibility and legal reparation for accidents (see also 331.825 Employer's liability, reparation). Aid by public or private charity or workers associations (better clast under 361–362). Fires (better clast under 614.84): causes, preventiv and protectiv mesures, etc. Safety and accidents in special industries. See also 331.2544 Accident insurance, 614.8 Protection of human life from accidents

.824 Industrial fatigue

.825 Employer's liability Reparation

Workmen's compensation. See also 331.253 Group insurance, 331.823 Responsibility for accidents

331.827 Improvement of working conditions in factories, stores, offices, etc.
Sanitation, baths, lavatories, toilet rooms, lighting, heating, ventilating; comfort, coat, rest and lunch rooms; cafeterias; morality, separation of sexes. See also 331.822 Industrial hygiene

.828 By industry
2–99 may be divided like 620–699 with 1 divided like the whole classification; e.g. 331.82822 Working conditions in mining, 331.828177 in photografy

.83 Material needs
Shelter, food, clothes. See also 640 Home economics

.831 Cost of living
Workmen's budgets. See also 331.2154 Relation of wages to cost of living, 364.26 Struggle for existence and crime, 647.1 Household accounts

.832 Consumptiv organizations
Consumers leags, cooperativ stores, etc. See also 334.5 Cooperativ consumptiv associations, stores

.833 Dwellings Lodgings
Housing problem in general. See also Domestic economy 643 Shelter: house, home; City planning 711.13 Housing; Architecture 728.13 Workmen's tenements, 728.68 Workmen's cottages

.834 Food
See also Domestic economy 641 Food, cookery

.835 **Restaurants Cafeterias**
See also Cooperation 334.4 Cooperativ housekeeping; Domestic economy 647.95 Cooperativ and collectiv housekeeping

.836 Clothing
See also Domestic economy 646 Clothing, toilet

.84 Morals and habits
Thrift, temperance, amusements, temptations. See also 170 Ethics, 263.6 Sunday amusement, 790 Amusements

.845 Use of leisure

.85 Intellectual life Education
Social settlements, libraries and reading rooms (see also 027.64 Workmen's libraries, 027.9 Free reading rooms, 263.7 Sunday opening), lectures, dramatics, musicals, continuation schools, etc. for laboring classes. See also 374 Adult education in general

331.86 Industrial education Training
Industrial rehabilitation. Apprenticeship (see also 331.3 Labor of children, 331.55 Apprentice labor); factory, vestibule and corporation schools; journeyman's service; cooperativ education; scholarships for study, for travel; study abroad; industrial nationalization (Americanization, etc., see also 325.73 Americanization of immigrants; for schools for the foren born see 371.98); training managers and foremen. For general industrial training see 607

.87 Organization of labor
For organization from standpoint of production see 338.018 Division and combination of labor

.88 Trade unions and other labor societies
For collected works on trade unions use 331.88049 divided like 08 in Table of form divisions following Relativ index. See also 338.64 Gilds

.8808 **Special questions relating to trade unions**
Union labels, labor racketeering, etc.

9 **By country**

91 International unions

93–99 divided like 930–999
E.g. 331.880942 Trade unions in England

.881 **By classes of workers**
2–99 may be divided like 620–699 with 1 divided like the whole classification for other industries; e.g. 331.88122 Miners unions, 331.881177 Photografers unions

.882 **Unions of managers**

.883 **Mixt unions of managers and workers**

.886 **Revolutionary unions**
Syndicalism, Fascism, Bolshevism, Industrial Workers of the World (IWW). See also 335 Socialism, communism

.887 **Unions of child workers**

.888 **" " women "**

.889 **Compulsory unions**
Open v. closed shop

.89 Disagreements between capital and labor
Combinations of workmen. Retaliation by employers. For prevention of outbreaks see 331.15. See also 364.26 Labor disputes and strikes and crime

.891 Attacks on freedom of work
Picketing, methods of intimidation. For scabs see 331.896

331.892 Strikes

Causes; types: the general strike; union, sympathetic, unorganized or outlaw, etc. (For sit down strikes see 331.8934). Strike maintenance, financial assistance and other strike benefits for strikers. See also 331.13 Termination of labor by employe

8 **In special industries**

82–899 may be divided like 620–699 with 81 divided like the whole classification for other industries; e.g. 331.892822 Strikes in mining, 331.8928177 in photografy

9 **By country**

Divided like 930–999, e.g. 331.892971 Strikes in Canada

.893 Other methods of workmen

Poor work, fair and unfair lists, etc.

1 **Violent**

Sabotage

2 **Mild**

3 Boycotting

4 Idling Sit downs

7 Injunctions

8 Political action Lobbying, etc.

.894 Methods of employers

2 **Blacklisting Laying under interdict**

3 **Whitelisting**

7 **Injunctions**

8 **Political action Lobbying, etc.**

.895 **Lockouts**

.896 **Strikebreaking**

Combating directly consequences of strikes; strikebreakers, scabs. Reorganization of remaining personnel, bringing in paid workers from outside, replacing strikers by volunteer workers

.897 **Strike benefits for employers**

Financial assistance, etc.

.898 Use of troops in labor disputes

.899 Other questions

.9 Other labor questions

International regulation of labor; the right to work (see also 331.61 Aiding paupers by furnishing work); encouragements to work offerd by general government or general societies: medals, decorations, rewards (see also 331.14 Work incentivs in general). Intervention of public powers in general; freedom and regulation of work; protection of workers; credit and contributions to workers and workers associations; transport of workers, workmen's trains

332 Financial economics Private finance

For public finance see 336. For full list of form divisions see Table 2 after Relativ index

SUMMARY

332.1 **Banks and banking Commercial banks**
.2 **Savings banks**
.3 **Loan institutions**
.4 **Money Monetary systems Coinage**
.5 **Nonmetallic money Nonmetallic standards**
.6 **Investment finance Financial markets**
.7 **Credit system**
.8 **Interest Discount**
.9 **Counterfiting Forgery Alteration**

.1 Banks and banking Commercial banks

Banks of deposit, business banks. See also 334.2 Cooperativ banks

.11 Central banks National banks

Bankers' banks, reserv banks, banks of issue or circulation, federal banks; regional banks, Federal reserv system of U. S. For international central banks see 332.15

.12 State or provincial banks Joint-stock banks

Cantonal and communal banks, country banks, locally charterd banks

.13 Private banks Partnership banks

Banking partnerships

.14 Trust companies Investment banking

Trusteeship; investment trusts, banks or dealers, bond houses; custodianships, customers' securities departments, including individuals as trustees. See also 332.6 Investment finance

.15 International banking Foren banking

Institutions and departments organized to conduct banking operations with or in countries other than those in which their parent establishments ar located; including their foren agents, correspondents, branches and similar affiliates. International central banks. Foren banking corporations, e.g. 'Edge' corporations. See also 332.16 Branch banking, 332.45 foren currency exchange

.153–.159 Geografic subdivision according to location of parent institution

Divided only geografically like 930–999. May be further subdivided after 09 like 930–999 according to country in which affiliate is located or with which foren business is conducted; e.g. American foren banking 332.1573, American banks in France 332.15730944, French banks in U.S. 332.15440973. But clas general discussions of banks or banking operations of foren countries in a special country in 332.1509 divided like 930–999; e.g. banks of foren countries in U.S. 332.150973

.16 Multiple banking

Branch banking (see also 332.15 Foren branches); group banking, chain banking, banking syndicates

.17 Administration

Organization, functions, methods, etc. Deposits, reservs. See also 332.25 Management of savings bank funds

332.2 Savings banks
See also 332.6 Investment finance, 334.7 Frendly societies, 362.62 Pensions, 368 Insurance

.21 Official savings institutions
National, state, municipal

.22 Postal, express and railway savings banks
See also 383.3 Post-office banking

.23 School savings banks Home or personal savings
Home savings banks, savings boxes

.24 According to type of organization
Mutual or non-stock savings' banks, savings associations (see also 332.32 Savings and loan associations); stoek savings banks; savings departments of general or commercial banks, thrift, compound interest and Christmas fund departments, etc.

.25 Management of savings bank funds
Use, investment. See also 332.17 Bank administration

.27 Safe deposit companies
Safe deposit departments, boxes, vaults

.28 Free savings institutions

.3 Loan institutions
See also 332.6 Investment finance, 332.7 Credit system

.31 Credit institutions
See also 334.2 Credit unions

.311 Agricultural banks and credit institutions
Land banks, morgage banks and companies, cattle or livestock loan companies. See also 332.313 Chattel morgage companies, 332.71 Agricultural credit, 631.16 Agricultural finanee

.312 Industrial credit institutions
Manufacturers and mercantil credit institutions; commercial and investment credit institutions, equipment trusts, etc.; credit institutions for special industries. For agricultural credit institutions see 332.311. See also 332.742 Industrial credit

.313 Chattel loan institutions
Chattel morgage companies, etc. See also 332.311 Morgage companies in general, cattle loan companies

.314 Institutions for loaning on salaries

.315 " " " " wages
Morris plan banks, workmen's banks

.316 Institutions for loaning on personal qualities
Personal loan institutions making loans based on character, business ability, etc. See also 332.745 Personal security

.317 Stock exchange banks

.32 Building and loan associations
Savings and loan associations, cooperativ loan associations. See also 332.24 Savings associations, 334.1 Building societies, 334.2 Cooperativ banks

.33 Monts de piété Government pawnshops

.34 Private pawnshops

332.4 Money Monetary systems Coinage
For design and manufacture see 737 Numismatics

.401 Theory

6 Miscellaneous monetary theories
Commodity, cost of production, quantity, etc. theories. See also 332.413 Value of money

.41 General questions

.411 Functions
Medium of exchange; measure or standard of value; standard of deferd payments, loan medium; storer of value, reservs; guarantor of solvency; gift medium

.412 Characteristics Qualities
Acceptability, stability of value, portability, durability, uniformity, divisibility, cognizability

.413 Value
Money and prices; determination of value, valuation (valorization), stabilization, fluctuation, appreciation, depreciation, debasement, devaluation (devalorization). See also 332.4016 Monetary theories

.414 Stock Supply
Variation, elastic or flexible currency; inflation, reflation, expansion (see also 336.368 Inflation in public insolvency); deflation, contraction. Circulation, currency fluctuations, forst circulation

.415 Denomination system
Monetary unit, money of account

.416 Legal tender Lawful money
For legal tender qualities of specific types of money see those types

.418 Coinage or monetary metals
Bullion, ingots; production, value, supply, etc.; nationalization. Gold, electrum; silver, billon; platinum; etc. See also 338.2 Mining production

.419 Coins Specie Metallic money
Ful-bodid coins; ful-weight, ful-value, standard coins; short-weight coins, token money, subsidiary or fractional coins. Abrasion, coins reduced in weight thru circulation or sweting, circulation tolerance; mutilation, defaced coins, clipping, filing, punching, trimming, etc.

.42 Monetary standards Metallic standards
For nonmetallic standards see 332.5

.421 General questions
Establishment, maintenanee, suspension or abandonment of standard; monetization, demonetization

.422 Monometalism Single standard
Gold standard, gold coin or gold exchange standard, maintenance of value in gold, gold clause; silver standard; limping or halting standard

.423 Bimetalism Double standard
Gresham's law, silver question, mint ratio v. market ratio; parallel and alternating standards; symmetalism

332.43 International standards International coinage

International monetary agreements or conventions, e.g. Latin union, Scandinavian union

.44 International monetary congresses

See also 330.63 General economic conferences

.45 Comparativ value of moneys Exchange of foren currencies Cambistry

Rates of exchange, mint par of exchange, gold or specie points, purchasing power parities, arbitrage of currencies, premium, agiotage, etc. For instruments of foren exchange see 332.77. See also 332.15 International banking, 332.65 International security operations

.46 Mints and mint practises Coinage

Coinage restrictions; private v. government coinage. Coinage charges (see also 336.18 Coinage profits as public revenues), mint price of bullion; gratuitous coinage; brassage, seignorage, profit funds. Mint toleranee, mint remedy, trial of the pix, standard weight, mint wastage. Recoinage. For design and technic of manufacture see 737. See also 669.9 Assaying

.47 Coinage laws

May be divided geografically and by period like 930–999, e.g. 332.474405 Napoleonic coinage laws, 332.47732 Coinage laws in colonial America

.48 Other coinage topics

.49 In special countries

Divided like 930–999; e.g. 332.4937 Money and coinage in ancient Rome

.5 Nonmetallic money Nonmetallic standards

.51 General questions

Advantages, disadvantages

.52 Convertibility Redeemability

Specie payments. Tho following topics ar also applicable to non-standard metallic money, it seems best to collect such material here. Representativ money, having metallic reservs equal to its ful face value. Credit or fiduciary money, having metallic reservs equal to only part of its face value; banking and currency theories, unrestricted v. restricted issue. Inconvertible or fiat money, printing pres money, emergency currency. See also 336.32 Printing pres money in Public finance

.53 Paper money Paper standard

Government or public notes: gold and silver certificates; currency notes (England); assignats, mandats (France). Bank notes, either public or private according to official status of issuing bank. Private notes intended primarily for general circulation as money: Chamber of commerce notes (France), Loan buro notes (Germany), for notes representing individual transactions, promissory notes, etc. see 332.77. Fractional paper money; e.g. shinplasters, scrip, stamp or postage stamp money. See also 329.82 Greenback party

332.54 Other nonmetallic moneys

Bearing printed or stampt statements of their monetary value. Clay tablets, sheets or tokens of lether, wood, etc.

.55 Mediums of exchange other than money

Primitiv mediums of exchange, commodities as mediums of exchange. Skins, cattle, cowrie shels, wampum, grain, tobacco, etc. as mediums of exchange

.56 Monetary standards based on value of commodities and service 'Scientific money'

Composit or multiple standards, index number standards, commodity dollar, etc. Standard for prices, for dets or deferd payments. Stable consumption v. stable income standard. Tabular standard (W.S.Jevons). Compensated monetary unit; compensated or stabilized dollar (Irving Fisher). Managed currency (J.M.Keynes). Social credit money, etc.

.6 Investment finance Financial markets

Bourses, brokers' boards, stock and security exchanges, commodity security exchanges, etc.

.61 General questions

Organization, administration, membership, 'seats,' officers, trading posts, functions, etc. Exchanges according to function (financial, stock, commodity, etc.) Stock exchange commission houses and branch offices, wire houses; stock exchange clearing houses (for bank clearing houses see 332.78). Stock exchange quotations, security price lists; security averages or indexes; quotation ticker and ticker services, tape and tape prices. Outside exchanges or markets, over the counter markets, unorganized exchanges: curb or street exchanges, coulisses; auction exchanges; bucket shops, illegitimate exchanges

.62 Security brokers and dealers

Agents de change. Brokers' agents and messengers, brokers' clerks, remisiers, runners, touts. Jobbers, traders, operators, professionals. Specialists, brokers and dealers in special classes of securities. Coulissiers, curb or street brokers; bucketeers, tipsters, illegitimate brokers and dealers

.63 Investment securities

Negotiable or transferable securities. Stocks (or shares) and bonds from economic and financial viewpoint. Capitalization, total amount of securities issued by an organization. Regulations for listing; wildcat securities, 'cats and dogs', speculativ, fraudulent or worthless securities. Corporation debentures; rights; certificates, corporation warrants; etc. See also 332.76–.77 Credit instruments, 658.14 Business financing

332.64 Security exchange operations Speculation
Stock jobbing, agiotage. Speculativ cycle, financial panics (see also 338.53–.58 Business cycles, 380.124 Trade cycles). General trading methods: for cash; regular way, for the account; for future settlement; with option. Orders. Credit transactions: margins, borrowing and lending securities, etc. Trading positions: long interests, buls, stags; short interests, bears; lambs; hedging. Settlement, clearing; daily v. term settlements; backwardation, contango, etc. Dealing in privileges, calls, puts, spreds, straddles. Averaging, pyramiding. Manipulation, cliques, rings, pools, wash sales, corners, bucketing, etc. Chart and tape reading.

.65 International security operations
Arbitrage transactions, comparison of commercial parities. See also 332.45 Arbitrage of currencies

.66 Public issue of transferable securities

.67 Investment
General investment principles and practises, investment distinguisht from speculation, etc. See also 332.14 Investment banking

.68 Lotteries
See also 336.381 Government lotteries

.69 Other questions

.7 Credit system
Theory and forms of credit, credit operations, credit instruments. For loan and credit institutions see 332.3, for public credit see 336.3. See also 658.14 Business financing, 658.882 Business credit methods

.71 Agricultural credit
For promoting agricultural operations. Crop loans, live stock loans, etc. Federal farm credit system, etc. See also 332.311 Agricultural banks and credit institutions, 631.16 Agricultural finance

.72 Landed credit Real estate credit
Morgage loans, farm morgage credit, etc. Federal farm loan system. For morgage banks see 332.311, for morgages see 332.77. See also 332.745 Loans based on property

.73 Popular credit Loans without interest

.74 Other types of credit

.742 Commercial credit Industrial credit
Productiv, capital or investment credit. Credit for special industries; maritim credit, etc. For agricultural credit see 332.71, real estate credit 332.72. See also 332.312 Industrial credit institutions

.743 Consumptiv credit
Individual or personal credit; i.e. credit extended to individuals

332.744 According to time of maturity
Short term, intermediate and long term credit

.745 According to security or risk
Personal security, loans based on character, moral risk; or on business ability or capacity, business risk. Collateral security, loans based on capital, property risk. Unsecured credit. See also 332.316 Personal loan institutions, 332.72 Morgage loans

.748 International credit

.75 Credit collapse Credit restrictions
Moratoriums; failure, insolvency, bankruptcy

.76 Deposit transfer instruments
Checks; interbank transfer accounts and clearings, French transfer system, German giro system; telegrafic and cable transfers; bank, express and postal money orders; travelers checks

.77 Other credit instruments
Credit instruments in general, commercial paper, etc. Promises to pay: notes, acceptances, open or book accounts; orders to pay: bils of exchange, drafts, letters of credit; collateral or documentary instruments: mortgages, etc. See also 332.63 Investment securities, 332.72 Morgage loans

.78 Clearing houses
For stock exchange clearing houses see 332.61

.79 Other questions

.8 Interest Discount
See also 336.31 Public securities

.81 General questions

.82 Interest

.83 Usury
Excessiv interest

.84 Discount
Discounting and rediscounting

.9 Counterfiting Forgery Alteration
See also 343 Criminal law

.91 General questions

.92 Coins

.93 Paper money Currency

.94 Securities Credit instruments
Check raising, etc.

.98 Protectiv mesures Safety devices

333 Land Natural resources Real estate

Ownership, rights, rent, policies. For other relations see Land in Relativ index following Tables. See also 338.1 Agricultural production, 339 National resources in general. For form divisions see Table 2 after Relativ index

.1 Government ownership and control

Public land, state domain. See also 336.1 Public lands as sources of revenue

.11 General questions

.12 According to government units

.122 International

.123 National

.124 State Provincial Cantonal

.125 County

.126 Municipal

.13 Expropriation Eminent domain

See also 336.18 Public revenue from expropriation

.14 Nationalization Socialization

.2 Community ownership

Common lands. See also 321.2 Village communities, 335.4 Communism, 335.9 Socialist communities

.3 Private ownership

.301 Theory

Occupation or seizure theory; ownership as natural right; labor theory, etc. See also 335.01 Socialist theories of property

.31 General questions

.32 Types of tenure

Feudal, manorial; family; individual, personal, allodium; corporate, collectiv, cooperativ

.33 Real estate transactions

Alienation or transfer of real property rights, inalienability, land investments and speculation, buying and selling real estate

.332 Valuation

See also 336.292 Tax valuation

.34 Registration systems Land titles

Torrens system, etc.

.35 Rights of succession

Inheritance, primogeniture, fideicommissum, mortmain, etc. See also 347.6 Inheritance law

.37 Large holdings

Latifundia

.38 Small holdings

Land division and allotment, parcelation, etc.

.4 Absentee or alien owners

333.5 Rent and renting Rural or agricultural rent

Landrent, rent of land for cultivation

.51 General questions

Economic theories of rent, land income, etc.

.52 Rental systems

See also 631.113–.114 Rent and share cropping in Agricultural economics.

.53 Tenancy

.54 Landlordism

Relations of landlord and tenant

.6 Urban rent

.62 Ground rent

Rent of land for building, industrial development, etc.

.63 Building rents

Rent of buildings, apartments, etc.

.7 Utilization Land classification

.71 General questions

Policies of utilization, settlement, etc. Limits of utilization

.72 Conservation of natural resources

See also 339.49 Conservation of national resources in general

.73 Waste lands

.74 Pasture and grazing lands

.75 Forests

See also 719.332 Forest reservs

.76 Cultivated lands Agricultural lands

.77 Urban lands Industrial lands

Lands for building, housing, industrial development, public utilities, transportation, etc.

.78 Recreational lands

See also 719.32 National parks, etc.

.79 Other surface utilization

.8 Subsurface utilization

Mineral lands, mines

.9 Other forms of utilization and rights

.91 Water rights

Riparian or litoral rights, shore lands; land under water; water utilization, for consumption, navigation, water power, irrigation; rights in oceans, lakes, streams, fisheries, etc.

.92 Air rights

334 Cooperation

Works on cooperation applied to other subjects ar generally better clast with those subjects, but may be kept together here by using 334.0001 followd by number for other subject; e.g. Cooperation in agriculture 334.000163, in business 334.0001658. For ful list of form divisions see Table 2 after Relativ index. See also 335 Socialism, 338.018 Cooperation in economic organization

.1 Building societies Cooperativ housing

Freehold land societies; loans, organization, etc. See also 332.32 Building and loan associations

.11 General questions

.12 For lease

Ownership remaining with society

.13 For sale

Ownership passing to individual members

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.273 Fees
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.279 Taxes for special purposes
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.28 Local taxes
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.292 Tax administration
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.293 Mesure of tax Tax rates
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.294 Distribution of tax burden
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.32 Short term securities Floating det
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.33 Sinking fund Amortization
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.34 Public credit

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.342 Character and bases of public credit

.343 Forms of public det
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.344 Det flotation
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.345 Burden and economic effects of public borrowing

.346 Control and limitation of public credit
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.36 Repayment Repudiation
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.368 Public insolvency Bankruptcy
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.37 Refunding Consolidation Conversion

.38 Other questions

.381 Lottery loans Premium loans
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.39 Public expenditure
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.4–.9 Finance of special countries
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337 Tarif policy Protection and free trade

For customs as source of revenue, tarif administration, schedules of duties see 336.26. See also 382 Foren trade. For form divisions, see Table 2 after Relativ index

.1 Absolute free trade No tarif

.2 Free trade Nonprotectiv tarif

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.3 Protection

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.31 General questions

.32 Ad valorem v. specific duties

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.33 Export duties and restrictions

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.34 Import duties and restrictions

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.35 Transit duties and restrictions

Licenses, embargoes, prohibition, etc.

.36 Tarif systems

Clas here general discussions of autonomous tarifs. Single schedule, general or unilinear; multiple schedule or multilinear tarifs. Maximum and minimum, bilinear or double schedule; general and conventional; intermediate; preferential or differential tarifs. See also 337.38 Customs reprisals, 337.91 Tarif treaties, 337.92 Colonial preferential policies

.38 Customs reprisals Tarif wars

Discriminatory and retaliatory duties, protection against unfair foren competition; countervailing and antidumping duties. See also 337.36 Tarif systems, 337.91 Reciprocity

.4 Subsidies Drawbacks

Bounties, premiums, subventions; rebates

.5 Protection applied to special articles

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.6 Protection applied to raw materials

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.7 Protection applied to intellectual products

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.72 Books Literary works

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.81 General questions

.82 Exemption from customs duties

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.83 Customs permit Acquit à caution

.84 Temporary admission Admission temporaire

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.87 Entrepôt rights Free ports and zones

Bonded areas and warehouses

.9 Other questions

.91 Tarif treaties

Customs unions, zollverein, conventional tarifs; reciprocity (see also 337.38 Customs reprisals); most favord nation clause (see also 337.36 Preferential tarifs); bargaining tarifs, concession and penalty systems

.92 Colonial tarif policies

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338 Production Economic organization and condition

Industrial economics, economic cycles. For ful list of form divisions see Table 2 after Relativ index

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338.1 Agricultural products
.2 Mining products
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.4 Manufactured products Machinery in industry Intellectual production
.5 Prices Cost Business cycles
.6 Systems of productiv activity
.7 Organization and concentration of production Entrepreneurship
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.01 Theory Philosofy of production

.011 General conception and field of production

Definition, nature and character, forms

.012 Classification

Of elements of production: land, labor, capital, entrepreneurship; relativ importance, interrelations. General discussions only; material on special element clas with that element: e.g. 333 Land, 331 Labor, 339 Capital, 338.7 Entrepreneurship

338.016 Miscellaneous principles and theories
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.018 Scientific and tecnical methods
Specialization, diversification, division and combination of labor, distribution of labor (for organization of labor in general see 331.87). Change from one economic state to another, industrialization, agronomization. Shift within fields; e.g. change of a country from production of one commodity or group of commodities to another because of action of law of comparativ advantage. Cooperation, competition, free exchange (see also 334 Cooperation). Control and distribution of production, supply and demand (for general theory of supply and demand see 380.11)

.019 History of production theory
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.06 Organizations

.062 Employers associations

.1 Agricultural products
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.12 Organization
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.13 Financial questions
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.14 Marketing and trade
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.15 Agricultural crises
Maladjustment of production and consumption, overproduction, surpluses, underproduction, crop failures, famins, underconsumption

.17 Special products
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.18 Relation to other subjects
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.373 Ice
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.374 Potable water
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.377 Water power

.4 Manufactured products Machinery in industry Intellectual production
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.46 Intellectual production
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.47 Special products
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.5 Prices Costs Business cycles
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.52 Prices and values
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.526 Price fixing Government regulation

338.527 Prices for various articles
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.53 Business cycles Crises Panics
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.54 Business cycles
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.55 Crises

.558 In relation to various subjects
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.56 Panics
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.57 Depressions Recessions

.58 Booms

.6 Systems of productiv activity
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.62 Primitiv production
Clas system

.63 Family system
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338.64 Handicraft system Custom system
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.65 Capitalistic or industrial production
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.72 Individual entrepreneur or proprietor

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.74 Industrial corporations

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.82 Monopolies
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.826 Monopolies in special industries
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.85 Industrial trusts

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.1 Comfort and poverty

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.14 Mendicancy Vagrancy

Beggars, hobos, tramps, vagabonds

.16 Poor relief

Indoor v. outdoor relief, almshouses, poorhouses. Private, individual or institutional v. public relief; poor laws. Economic aspects only; for general discussions, methods, etc. see 362.5

.18 Comfort

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.2 Division and distribution of welth

Modes and principles of distribution

.21 General questions

.22 Inequalities in distribution

.23 Distributiv shares

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.41 General questions
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.42 Standards of living Wants
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.43 Economic or beneficial consumption
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.44 Uneconomic or harmful consumption
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.45 Luxury
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.46 Avarice Miserliness Hoarding

.47 Control of consumption
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.48 Special items of consumption
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.3 **Antiquities: torture, trial by ordeal, duel, etc.**
.4 **Trial by jury**
.5 **Comparativ legislation**
.6 **Medical jurisprudence** See also 614.23 Expert testimony
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342 Constitutional law and history
Divided by countries like 930–999. Under each, works may be divided: 01 Texts of constitution; 02 Conventions; 03 Systems, commentaries; 04 Essays; 08 Polygrafy; 09 History, but it is recommended that American libraries make an exception for U. S. by omitting 0, using, for example, for commentary on U. S. constitution 342.733
For Administrativ law, see 350

343 Criminal law

.09 History and local treatment
Divided like 930–999. Under each country, works may be divided: 01 Penal codes; 02 Reports; 03 Criminal procedure; 04 Text books and manuals. For exception recommended for American libraries see note under 342.

.1 **Criminal trials**
.2 **Punishments**
Corporal. Deth penalty. Hard labor. Confinement

344 Martial law
See also 355 Military law

Private law

345 United States statutes and cases
Divide each of the sections .1–.5, using 1 U. S.; 2 Individual states arranged alfabeticly; e. g. Statutes at large of U. S. 345.11; Acts and resolvs of Mass. 345.12

.1 **Session laws**

345.2 **Codes Revised statutes**
.3 **Law digests (of statutes)**
.4 **Reports**
Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical collections of various states; e. g. Eastern Reporter, etc; .42 Reports of individual states
.5 **Digests of cases**

346 British statutes and cases
Divided like 345. Includes all reports in English languagc except U. S. reports

347 General works Treatises
.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies, bar associations .08 Polygrafy .09 History
Put law of special topics with subject; e. g. Insurance law, 368. Divisions .1–.8 may be disregarded and all English law textbooks arranged in one alfabet by authors

.1 **Persons Legal capacity**
.2 **Realty**
.3 **Chattels Movables**
.4 **Contracts**
.5 **Torts**
.6 **Family law and inheritance**
.7 **Commercial and maritime**
.8 **Equity**
.9 **Civil trials Procedure Courts Judiciary**
.91 Civil trials
.92 Pleading
.93 Forms
.94 Evidence Testimony in general not limited to civil trials
.95 Remedies
.96 Justises of the peace Notaries Sheriff
.97 Organization of courts
.98 Jurisdictions
.99 History of special courts

348 Church law

349 Law other than American and British
Divided like 930–999, and under each modern state divided after a o like 345 with 071–079 used for Treatises like 347; e. g. 349.44075 is French law of torts, 349.4402 is French code; or, if preferd, 347 may be used to include treatises on law in any country and 071-079 be disregarded after country subdivisions of 349. Roman law is divided:

.37 Roman law
.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Education .08 Polygrafy .09 History
.371 Sources: Ante-Justinian
.372 " Justinian
.373 History and criticism of sources
.374 Institutes: ancient Roman law
.375 Pandects: modern " "
.377 Treatises on special topics Divided like 347

350 Administration
Including Military science. .1 Theory; .2 Compends; .3 Dictionarics; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygrafy; .9 History
A large number of the questions properly placed under Administration ar clast with related topics elsewhere. Some of these ar repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

351 Administration of central government
.1 **Organization of civil servis**
Offisers Method of selection: election or appointment Official functions and powers Mutual relations
.2 **Civil lists**
.3 **Examination**
.4 **Tenure of offis Disciplin** See 351.92 Power of removal
.5 **Pensions**
.6 **Reform Spoils system vs offisholding clas**
.7 **Subjects of administrativ action**
See also 353 United States; 354 Countries other than United States
.71 Financial administration
See 336 Public finance, public property, taxation
.72 Budget Public accounts
.73 Internal affairs See also 323 Domestic relations
.74 Police mesures
.75 **Public safety and order** See also 352.2 Police; 365 Prisons, etc.
.751 Press
.752 Reunion and association
.753 Wepons
.76 **Vice and good manners**
.761 Liquor regulation See 178 Temperance
.762 Public gaming See 174.6 Ethics
.763 Public begging See 339.1 Pauperism
.764 Prostitution See 176.5 Ethics
.77 **Sanitary police**
See 352.4 Boards of helth; 614 Public helth, etc.
.78 **Accidents** See 614.8 Public helth
.781 Bildings See 614.85
.782 Fires See 614.84
.79 **Other**
.791 Policing waterways
.792 U. S. Coast guard
.8 Promotion of public welfare
.81 **Means of communication**
See 380 Commerce, communication
.811 Highways See 388; 352.7 Local government
.812 Railways See 385
.813 Waterways See 386; 387
.814 Ferries
.815 Bridges See 352.7 Local government
.816 Postoffis See 383
.817 Telegrafs See 384.1

351.82 **Trade and industry**
.821 Weights and mesures See 389 Commerce
.822 Coinage and money See 332 Banks, money
.823 Landed industry
Agriculture See 630 Useful arts; 338.1 Production
Forests See 634.9 Forestry; 333.7 Land
Mines See 622 Mining; 338.2 Production; 333.75 Land
.824 Commercial and manufacturing industry
See 380 Commerce; 338 Production
.825 Institutions of credit See 332 Banks, credit
Savings banks See 332.2
Mutual benefit societies See 334 Cooperation
Insurance See 368; 334.3 Cooperativ insurance
Monts de piété See 332.33
.83 **Labor** See 331 Capital, Labor, Wages
.84 **Public charity**
See 339.1 Pauperism; 360 Associations and institutions
.85 **Education and worship**
.851 Public education See 379 Education
.852 Public libraries See 027.4 Library economy
.853 Art museums See 708 Art
.857 Worship See 322 Church and state
Military and naval See 355–359 Army and Navy
Justis See 340 Law
Foren affairs See 341 International law; 327 Political science
.9 **Control over the administration**
.91 Administrativ control By superior offisers
.92 Disciplinary power
Power of removal. See also 351.4 Tenure of offis
.93 Supervision
Power to annul or amend specific acts
.94 Judicial control
.941 **Ordinary courts** See 347.5 Law of torts
.945 **Criminal courts** See 343 Criminal law
.95 Administrativ courts
.96 Parliamentary control
.97 Petitions and addresses
.98 Investigations
.99 Impeachment

352 Local government: county, town, city

See also 379 Public schools; 020 Libraries

General questions of municipal administration

.001 Growth and importance of cities
.002 Cities and state control
.003 City as a juristic person, a corporation
See also 347.1 Law of corporations
.004 City organization, municipal elections
.005 Municipal civil servis
.008 Forms of administration
Commission, manager etc.

Local administration of special countries and cities

.03–.09 divided by countries like 930–999

352 042 **Local government in England**
Arrange matter relating to special cities alfabetiely by name of city and subdivide the remaining works as follows:
01 County
02 Municipal boro
03 Parish
04 Union See 339.1 Pauperism
05 Sanitary districts See 614 Public helth
06 School districts See 379 Education
07 Highway areas See 352.7
.043 **Local government in Germany** Special cities like 352.042
01 Province: landtag, provincial committee, director
02
03 Circle Circle diet Circle committee Landrat
04 Commune
05 Towns
06 Township
044 **Local government in France** Special cities like 352.042
01 Department
02 General council
03 Departmental commission
04 Prefect
05 Arrondissement
06 Commune
07 Mayor
08 Municipal council
.1 **Finances: city property and local taxation**
See also 336 Public finance
.2 **Police**
.3 **Fire department** See also 621.68 Fire engins; 614.84 Fires
.4 **Public helth: board of helth** See also 614 Medicin
.5 **Public bildings and works**
.6 Water and sewerage works See also 628 Sanitary engineering
.7 Streets Highways Bridges Parks
See also these topics in Relativ index for other relations
.8 **Licenses: hack, huckster, entertainment, etc.**
.9 **Other topics**

353 United States and state government

Operation of executiv branch of government. For U. S. congress and state legislatures see 328.73–.798, where also ar department reports in sets of congressional and state documents. Clas separates of such reports with their subjects or with their respectiv departments in 353.1–.97988 when they hav no definit place elsewhere in the clasification; but report of office of education 379.73, of agriculture dep't 630.6
See also 342.73 Constitutional law and history, 347.9 Judiciary branch

.01 Administrativ centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet
.1 **State department**
.2 **Tresury department**
Laws and rules governing tresury; but clas reports 336.73 U. S. finance
.3 **Interior department**
.4 **Postoffis department** See postal servis 383.4973

353.5 **Justice department** For judiciary branch see 347.9

.6 **War department**

See also 355 Army: military science

.7 **Navy department**

See also 359 Navy: naval science

.8 **Other departments**

.9 **State government** Divided like 974-979

Apply same decimals for state governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dep't of D. C. 353.97535. 353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476. Prefer 355-359; see note under 355

354 Organization of central government Countries other than United States

See also 342 Constitutional law and history

Divided geograficly by countries like 930-999. Under each country (except where existing country divisions conflict; e. g. 943 Germany, 943.6 Austria) the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department of Great Britain, 354.421; or, for sake of uniformity and because of possible future division of countries (and this is advized for libraries which hav not alredy added the department numbers directly to the country number) these numbers may be added to 06 affixt to country number (see Germany below); e. g. 061 State department, etc. But do not use these divisions where a single number is at present used for 2 or more countries (e. g. 989 Paraguay, Uruguay) and for which more specific provision wil eventually be made. Ad also the following divisions:

.42 Administration of England Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 Monarch
- 04 Privy council
- 05 Cabinet

.43 Administration of Germany Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 Empire
- 032 Bundesrat
- 033 Emperor
- 034 Ministry
- 04 Republic
- 06 Departments
  - Divided like 353; e. g. 354.43062 Tresury department of Germany
- 07 States Monarchs
- 072 Landtag Ministers Council of state
- 08 Free cities

.44 Administration of France Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 President
- 04 Ministers
- 05 Council of state

355 Military science

Military in broad sense of land and sea forces; but limited to military science, tactics, strategy, etc. For War department of U. S. see 353.6, of other countries use 066 following appropriate geografic subdivisions of 354, e.g. 354.42066 War dept of England. Clas general histories of military units covering several wars and intermediate periods under appropriate subdivisions of 355-359; e.g. History of 2d U. S. Cavalry 357.0973, general history of a N. Y. infantry regiment 356.09747 (see note under 353.9). See also subdivision 4 under special wars in 973; e.g. Mexican war being 973.62, regimental history of that war is 973.624. See also 172.4 Ethics of war, 341.3 War in International law, 344 Martial law, 399 War customs, 623 Military engineering. For form divisions see Table 2 after Relativ index

SUMMARY

355.1 **General questions Military life**
.2 **Military resources Recruitment and requisitions**
.3 **Organization of military forces Classification**
.4 **Tactics Strategy History of campains**
.5 **Training maneuvers and services**
.6 **Military administration and maintenance**
.7 " **establishments**
.8 " **equipment and supplies Matériel**
.9 **Other topics**
356 **Infantry Foot troops** 357 **Cavalry Mounted services**
358 **Other arms and services: artillery, engineers, special technical services, air services**
359 **Naval science Sea forces Marines, Coast guards, etc.**

.1 General questions Military life

.11 Servis periods and retirement

.111 Length of activ service Training periods

Recall, allotment of various army classes, etc.

.112 Promotion

By seniority, by merit. See also 355.134 Military rewards

.113 Inactiv periods

Leavs, furlos; in reserv status, availability; non-activ periods, periods on half-pay; sick leavs (undergoing treatment in hospitals, sanitariums, etc.); during captivity, internment, etc., as prisoners of war (see also 365.45 Penal institutions); during imprisonment, etc.

.114 Termination of servis Resulting status

Retirement, resignation; discharge (honorable or dishonorable), reinstatement proceedings; desertion, deth, suicide, etc. Cancelation of commission, etc.

353.5 **Justice department** For judiciary branch see 347.9

.6 **War department**

See also 355 Army: military science

.7 **Navy department**

See also 359 Navy: naval science

.8 **Other departments**

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355.115 Veterans Former combattants
Old and disabld soldiers. Provision for ex-soldiers, civil employment, colonization, rehabilitation, etc. See also 351.1–.6 Civil service and pensions, 362.65 Aid in cases of infirmity

.12 Military life in peace and war
Living conditions, etc. under various military situations: in garrison or camp, in the field, on the march, during maneuvers, in battle, etc. See also 613.67 Military hygiene, 641.573 Military cookery

.13 Military honor Disciplin Remuneration
Military ethics and etiquet

.131 General questions
Ceremonies; breaches of honor; courts of honor and inquiry, judgments, penalties, disgrace, etc.

.132 Military duels
Defense and satisfaction of honor. See also 179.7 Ethics of dueling, 394.8 Dueling customs

.133 Military disciplin Offenses
Military authority and obedience. Military crimes, mutiny, looting, malingering, etc. Disciplinary organization: military police, gendarmes, provost marshals; administration of military justice. Military punishments: corporal punishment, flogging, etc.

.134 Military rewards, privileges and advantages
Special privileges; salutes; honorary insignia, brevets, decorations, medals, badges, orders, etc. (For insignia designating function and identity see 355.81) Rolls of honor (Rolls of honor of a particular war ar clast with history of that war). Gifts, booty, etc. See also 355.112 Promotion, 929.7 Military orders and nobility

.135 Remuneration
Military pay, salary. For methods and records see 355.64, pensions 351.5

.14 Uniforms
As costume. System, distinguishing rank; stile, color, esthetic considerations. Etiquet of uniforms, regulations as to what to wear under various circumstances. For administrativ aspects see 355.66, description and use 355.81

.15 Colors and standards
Flags, color guards. Limited strictly to military regulations. For functional aspects see 355.81. See also 929.9 Flags in Heraldry

.16 Military celebrations
Commemorations, anniversaries, jubilees. Celebrations relating to a particular war ar clast with history of that war

.17 Military ceremonials

355.2 **Military resources Recruitment and requisitions**
Discussions of value and availability of peace time national resources if needed for defense and in time of war. Legislation providing for militarization of national resources in case of need for war or defense. For administration after being taken over by the military see 355.6

.21 General questions
Preparedness, rediness of resources for mobilization; conscription of welth and property; economic preparedness; military tax; sabotage of military resources, etc.

.22 Men Recruitment
Obligations of citizens with respect to national defense; militia system, national guard. (For relations of government to maintenance of public order see 351.74 Government police mesures) Voluntary and compulsory enlistment, conscription, drafting, universal service; recruits from military schools, commissioning of officers. Forcn enlistments. Exemptions, bounties, evasion of service, conscientious objectors, etc. Administration of recruiting, quota system, etc. Medical, phisical and mental examination of recruits. See also 151.2 Psicologic mesurements, 616.075 Medical diagnosis

.23 Civilian mobilization
Maintenance of war morale, information service and propaganda, censorship. Protection of civilians, feeding, remuneration for damages, etc. Duties of civilian employes, provision for civil officials. Internment of civilians and enemy aliens, civil concentration camps. For military prisons see 355.71; see also 365.45 Penal institutions

.24 Raw materials
Unprocest materials, availability, etc. for military use. Agricultural, mineral, etc.; food stufs, fuel, etc. Economic resources in general

.26 Industrial resources and mobilization
Procest materials, manufactures, provisions, etc. Availability and conscription of private enterprize, commercial and financial mobilization

.27 Transportation facilities
Roads (see also 623.62 Military roads), railways (see also 623.63 Military railways), vehicles, canals, ships, merchant marine (see also 359.27 Availability of merchant marine for naval use, 387.8 Merchant marine in general transportation). Routes of travel, distances, strategic importance, etc. Limited to peace time systems of transportation and their availability in time of military need. See also 355.43 Stretegic lines and bases

355.28 Effectiv mobilization Military requisitions
Declaration of imminence of war, application of emergency powers, calls to arms, order of call. Commandeering of animals, vehicles, forage, real property, etc. Establishment of military zones, closing frontier, etc.

.3 Organization of military forces
Classification of personnel

.31 Army units and organization
Constituent divisions for administrativ purposes. Armies, corps, divisions, regiments, army posts, companies, platoons, squads, etc. Special and incidental units and formations, guards, foren legion, detachments, parade and inspection units, etc. For classification according to military obligation and field of service see 355.35. For special arms see numbers for those arms, e.g. 356 Infantry, 357 Cavalry, 358 Tecnical services, artillery, etc.

.33 Officers Military hierarchy
Ranks and grades of personnel, military commissions. Commander-in-chief, hedquarters staf, inspectors, commanders, generals, captains, aides-de-camp, adjutants, etc.

.331 General questions General command
General principles of command, whether of large or smaller units. Leadership and command of troops; preparation of orders, field correspondence, passes, etc.

.338 Enlisted men Privates
For functional classification see numbers for various arms and services, e.g. 356 Infantry

.34 Special services
Outside and independent of the regular arm or grade. Officers or men detaild outside their regular grade as instructors, paymasters, quartermasters, commisary officers, color bearers, etc. Various functions common to all arms including work not strictly military. Signal and intelligence services, dispatch carriers, postal service, scouts, orderlies, drummers, buglers, etc.; spies, attachés. Accountants, carpenters, machinists, chauffeurs, tailors, cooks, librarians, etc.

.35 Armies General stafs
Clast according to military obligation and field of service. For military units see 355.31

.351 Continental or home armies
1st or front line; 2d line, reservs; 3d line, territorials, frontier troops or guards, etc.

.352 Colonial armies
Expeditionary forces, nativ troops, auxiliaries, etc.

.356 Allied forces
United forces of coalitions or alliances

.357 International armies

.358 Secret or conceald arms and armaments

355.4 Tactics Strategy History of campains
Plans for attack and defense. Tactics and strategy of a special arm should be clast with that arm. See also under 355.5 Practis maneuvers

.41 Logistics and field service
General details of movement and supply of armies in activ service

.411 March tactics
Tactics of troops on the move

.412 Encampment tactics
Tactics during halts, guard duty, outposts, etc.

.413 Scouting Reconnaissance Patrols

.415 General tactical services
Establishing and maintaining lines of communication, routes of travel, rates of progress, etc. (see also 623.6 Military roads and bridges in Military engineering). Maintenance of supply service, magazines, arsenals, etc. Tactics of camp organization and safety; of medical service, evacuation of wounded, etc. Establishment of telegrafic and similar connections (see also 623.7 Tecnical aspects of military signaling). Handling prisoners of war, etc.

.42 General tactics
Offensiv and defensiv tactics in time of battle. Tacties of combined arms, land and sea forces, when working together. See each arm for its peculiar tactics

.421 General questions
Command and troop liaison, tactical rides, general staf journeys, etc.

.422 General battle tactics
Offensiv and defensiv. Debarkation and landing maneuvers; skirmishing, night attacks, counter attacks, retreats; destruction of works, factories, supply depots, etc.

.423 Influence of terrain on operations
Tacties in wooded areas, inhabited regions, in the mountains, along water courses, etc. Stream crossing, etc.

.424 Use of various auxiliary means
Temporary fortifications, trenches, bridges, special means of communication, balloons, dogs, pigeons, etc.

.425 Guerrilla warfare
Indian fighting, etc.

.426 Riot duty Street fighting
Civil warfare

.427 Colonial tactics

355.43 Strategy

General military planning. Plan of concentration, arrangement and deployment of troops. Strategic lines and bases (see also 355.27 General transportation facilities). Strategy of offensiv and defensiv operations, means of diverting attack of enemy, smoke screens, camouflage, etc. Evaluation of forces, study of terrain, influence of morale, determining proper moment to strike, calculating duration of war, etc.

.44 Siege warfare

Attack and defense of towns, fortified places, etc. Investment, blockade, bombardment, assault, mine warfare, etc. For engineering aspects see 623.2–.3

.45 National defense

Fortified defensiv positions and zones, barrier forts, etc. Military division of territory; distribution, location and placement of troops, garrisons. Defense of industrial areas, fronters, coasts; provision of zones of inundation, flooding, etc.

.47 Military geografy

Geografic works written from military point of view and works on strategic conditions in particular theaters of operation. Preservation of military charts, etc. Divided like 930–999, e.g. 355.4773 Military geografy of U. S.

.48 Military history

Tecnical accounts and analises of special wars, campains, battles and military events; including similar discussions of imaginary wars and battles. In general preferably clast with wars to which they belong in 930–999

.5 Training maneuvers and services

Instruction of troops and subaltern grades, military practis and games

.51 General questions

General garrison and field service, mobilization maneuvers, demobilization, etc.

.52 Grand maneuvers Instruction camps

War games with 2 'armies', maneuvers of combined arms. Maneuver and dril grounds, field exercises. Concentration tests, fortress maneuvers, etc.

.53 Special formations and maneuvers common to various units

Tactical exercizes in the field or over irregular terrain. General formations: march, assembly, combat, parade, bivouac, etc. formations. Embarkation, marching, halting, etc. maneuvers. Safety and reconnaissance practis. Offensiv and defensiv maneuvers: pursuit, retreat, renewal of supplies, etc.

355.54 Elementary training of units Tactical exercizes for recruits

See also numbers for separate arms in 356–359

.541 Foot maneuvers

With or without arms, executing the manual of arms, target practis, small arms practis, rifle ranges. See also 623.44 Small arms in Military engineering, 796 Athletic sports and games

.542 Mounted and motorized maneuvers

With or without arms, manual of arms for mounted troops, practis with saber, lance, etc.

.543 Artillery maneuvers

Artillery ranges and practis firing. See also 623.4–.5 Artillery and Gunnery in Military engineering

.544 Camp and fortification operations

Field engineering, castremetation, camp making (see also 623.613 Military establishments in Military engineering). Temporary fortifications, accessory defenses, batteries, obstacles, demolition and repair. Field kitchens, etc.

.55 Officers' maneuvers and exercizes

Staf field exercizes. Theoretic problems, map and chart maneuvers; military operations workt out with miniature apparatus, counters, colord disks, etc.

.58 Maneuvers involving the civil population

Safety activities, warning and intelligence service, blackout, rescue maneuvers, demonstrations, etc.

.6 Military administration and maintenance

Clas here only the workings and direction of central administrativ services. For personnel and organization of these services for special arms see appropriate subdivisions under each arm in 356–359

.61 General questions

Interior administration, adjutant's dept, civil employes, etc. Record keeping, filing systems, paper work in general. General correspondence, issuance of orders, authorization of expenditures, adjustments, etc.

.62 Execution of administrativ mesures

Contracts, accounting (financial, materials)

.63 Control and supervizion

General administrativ inspection service and organization. Intendance and commissariat in general

355.64 Paymaster's department
Administration of pay, allowances, pensions, etc. For pension systems see 351.5, pay systems 355.135

.65 Subsistance department
Administration of food supply service, marketing, rationing, distribution, etc.

.66 Clothing and equipment department
For uniforms as costume see 355.14, description and use 355.81

.67 Lodging administration
Provision of quarters, maintenance and upkeep, heating, lighting, ventilation, etc.

.68 Animals
General administration

.69 Other administrativ services
Transportation maintenance, etc.

.7 Military establishments
Organization and service of permanent and quasi-permanent building groups as military units; including private establishments performing military functions and contracts. See also 358.36 Military construction services, 359.7 Naval establishments, 623.6 Military establishments in Engineering, 725.18 Architecture of military buildings

.71 Cantonments Lodgings for troops
Barracks, military hedquarters, posts, school groups, camps, billeting arrangements, military prisons, lodging equipment, etc. For civil concentration and internment camps see 355.23. See also 365.45 Penal institutions

.72 Sanitary and medical establishments
Hospitals, infirmaries, sanitariums, etc.

.73 Artillery establishments
Arsenals, military foundries and workshops, munitions factories, matériel depots, powder factories and magazines, target ranges and proving grounds, artillery schools, etc. See also 623.47 Arsenals in Military engineering

.74 Engineering establishments
General shops and factories, depots and testing grounds for engineering materials

.75 Administrativ establishments
Subsistance and general equipment establishments; bakeries, kitchens, provision and fodder storehouses, supply farms, water supply, clothing manufacture and repair establishments, etc.

355.8 Military equipment and supplies Matériel
Military stores, description, issue and use; quartermaster's dept, etc. For equipment of a particular arm see number for that arm in 356–359

.81 Clothing Camp equipment
Uniforms and other wearing apparel, hed coverings, buttons, shoes, leggings, underwear, functional insignia, etc. (for decorativ and honorary insignia see 355.134; see also 355.14 Uniforms as costume, etiquet of uniforms, 355.66 Administrativ aspects). Accouterments, canteen, knapsacks, baggage, etc. Camp equipage, everything necessary for camping, tentage, field kits, bedding, rations, stoves, cooking and mes utensils (see also 641.573 Military cookery); camp flags, colors and insignia identifying various units, etc. (see also 355.15 Flag regulations)

.82 Arms and ammunition
Administrativ questions; working and reserv supply, storage, issue, etc. For mecanism and relativ efficiency of different kinds see 623.4

.83 Transport equipment
Wagons and other vehicles, harness and other accessories. Packing and shipment of goods. Transport trains, sled and pack trains, etc. Railroads, troop ships, transport planes, etc. Mecanical transportation, motor transportation, tractors, etc. Artillery vehicles, including the guns themselvs. Pontoons, boats, ambulances, etc. Skates, skis, snowshoes, etc. Transport animals, horses, mules, camels, elefants, dogs, etc.

.84 Pioneering tools
Digging and intrenching tools. Tools for preparing roadways, cutting thru forests, etc.

.85 Nonpioneering tools and instruments
Communications equipment, etc.

.86 Recreational equipment
Athletic equipment, musical instruments, etc.

.87 Archival and documentary materials
Materials for record keeping, printed forms, etc.

.9 Other topics

356 Infantry Foot troops

.1 General questions
Personnel and organization

.11 Main infantry units
Infantry of the line; light, mounted, cyclist, etc. infantry; foot chasseurs; shock, etc. units; mecanized infantry

.12 Colonial infantry

.13 Organizations eventually subject to mobilization
Firemen, customs officials, foresters and other government services speeially liable to infantry service. Reservs, national guard infantry, etc.

.14 Volunteer corps

.15 Irregular troops
'Corps francs' existing only during war; self-organized infantry; guerillas, brigand troops, etc.

.16 Infantry units performing special functions
Fusiliers, grenadiers, sharpshooters, machine gunners, scouts, etc. Alpin, parachute, ski, etc. units

.18 Tactics and maneuvers Equipment
Dril regulations, infantry manual of arms. Marching, stream crossing; firing, musketry, small arms practis and inspection, etc. Infantry equipment, clothing, arms, bayonets, swords, pistols, etc. (see also 355.8 Military equipment and supplies in general)

.2 Staf and special services
Personnel and organization. Staf officers, adjutants, assistants, aides, etc. Staf clerks, secretaries, etc. Intelligence services, espionage, information, records, etc. Speeial tecnieal and scientific services, cifers, etc. Staf activities during maneuvers, field service, etc. Chancery and protocol services, etc. See also special tecnical services in 358.3

.3 Administrativ staf and auxiliary services
Personnel and organization. Intendance, sanitary service, recruiting, etc. See also 355.6 General military administration

357 Cavalry Mounted services
Special mounted troops outside the other regular arms and general questions concerning animals in army service ar included here

.1 General questions
Personnel and organization

.11 Main cavalry units
Cavalry of the line; hevy, reserv, light, etc. cavalry. For mecanized cavalry see 357.5

357.12 Colonial cavalry

.14 Volunteer cavalry

.15 Irregular "
Guerilla, brigand, etc. cavalry

.16 Cavalry units performing special functions
Cuirassiers, carbineers, lancers, hussars, mounted chasseurs, dragoons, cavalry pioneers, etc.

.17 Cavalry and draft animals
Horses, mules, oxen, camels, elefants, etc. For administrativ functions see 355.68, remount service and training 357.2

.18 Tactics and maneuvers Equipment
Cavalry manual of arms. Stream crossing; cavalry outposts, reconnaissance; cavalry field service; firing instructions, cavalry sword exercizes, etc. Cavalry equipment, uniforms, arms, etc. (see also 355.8 Military equipment and supplies in general)

.2 Remount and training services Breeding establishments
Personnel and organization. Securing and training cavalry mounts; training camps, equitation; remount depots, breeding, care, etc.

.3 Army equipment train
Personnel, organization, establishments; provision and munition columns, etc.

.5 Mecanized cavalry
Cyclist, motorcicle, automobile, etc. cavalry. Tecnical corps; fuel and other supplies. See also 358.1 Tanks, armord cars, etc.

.7 Cavalry staf and special services

.8 Administrativ staf and auxiliary services

358 Other arms and services
Artillery, engineers, tecnical services, etc. Personnel, organization, equipment, tactics, etc.

.1 Artillery
Types of artillery units: field, mountain, coast, antiaircraft, etc. Combat vehicles: tanks, armord cars, etc. (see also 357.5 Mecanized cavalry). Artillery tenders and auxiliary services. Artillery animals, motorized artillery, etc. For ordnance, gunnery, etc. see 623.4–.5 Military engineering

.2 Engineers
Pioneers, sappers, miners, bridge and road engineers, railroad units, torpedo units, etc. Communications services: telegrafists, signalers, radio operators, searchlight engineers, etc. Electricians, etc. See also 623 Military engineering

358.3 Special tecnical services

Military artisans; services connected with manufacture of war matériel, munitions, powder, etc.; with construction of military buildings, camouflage service, etc. 358.31–.37 may be divided like 623 for services not otherwize specially provided for, e.g. 358.36 Military construction services, 358.377 Camouflage services. In general prefer 623 Military engineering. See also 355.7 Military establishments

.4 Air service

As separate service, or connected with army or navy. Personnel, organization, equipment, tactics, etc. Aeronautic establishments, airfields, etc. See also 623.74 Military aeronautics, 629.13 Aeronautic engineering

359 Naval science Sea forces

For Navy dept of U. S. see 353.7, of other countries use 067 following appropriate geografic subdivisions of 354, e.g. 354.42067 Navy dept of England. See also subdivision 5 under special wars in 973; e.g. naval units in Mexican war 973.625. For naval affairs considerd in conjunction with general military science see various subdivisions under 355; see also note under 355. See also 527 Navigation, 613.68 Naval hygiene, 623.8 Naval architecture. For form divisions see Table 2 after Relativ index

.1–.8 may be divided so far as applicable like 355.1–.8; e.g.

359.3 Organization of naval forces
- .31 Naval units: Fleets, squadrons, flotillas, etc. Crews, divisions, gun crews, etc.
- .32 Special types of ships
- .33 Naval hierarchy, officers: Fleet commander, admirals, rear admirals, captains, lieutenants, ensigns, midshipmen, warrant officers, boatswains, petty officers, etc.
  - .338 Enlisted sailors
- .35 Navies: Clast according to military obligation and service. Main fleets; reserv, auxiliary and colonial fleets; coast defense, landing forces, etc.
- .5 Naval training maneuvers
- .54 Training ships

.9 Other topics Special services

.96 Marines Naval infantry

.97 Coast guards

In time of war. For Coast guards in general see 351.792

.98 Special tecnical services

.981 Naval artillery

.982 " engineers

360 Welfare and social associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London ar 367.9421

Clas under 360 all which concerns welfare work, insurance, and associations having a social caracter and not devoted to some special field. Those devoted to some special field (religious, commercial, scientific, art, sporting, literary etc.) ar clast under their own subject divisions. See also 060 General societies; 334 Cooperativ societies

361 Charitable

See also 377.7 Charity schools. For humane societies see 179.2

.01 Principles of welfare work

Responsibility, charity, philanthropy, mutual aid

.1 Medical aid in general

Medicin for poor; free medicin; medical and pharamceutic aid

See also 362.1 Hospitals for sick and wounded

.2 Aid according to place where given

In country or city, at home or in institutions

.3 Aid according to person resieving

See also 362

.4 Aid according to kind

Funeral expenses

.5 Certain exceptional cases

Calamities, disasters, plagues

- .51 Earthquakes
- .52 Floods
- .53 War
- .54 Epidemics
- .55 Famine
- .56 Fire

.6 Official or public aid in general

.7 Private aid in general

.73 Contributions Charity entertainments

.8 Charity organization

United work; cooperation and association of charitable works: charity information bureaus

362 Hospitals, asylums, and allied societies

.01 Discussions of purpose, nature and caracter

.1 Sick and wounded

See also 361.1 Medical aid in general

.11 General hospitals Contagious wards, pesthouses

Infirmaries

Treatment at hospitals

.12 Dispensaries

.13 Sanitariums and bath establishments

Special sanitariums: for incurables, cancer patients, lepers, epileptics, consumptivs, inebriates. Sanitariums at high altitudes. Baths and watercures. Establishments for sea baths

362.14 Medical cases treated at home
.145 **Distribution of medicins**
.15 Maternity hospitals
Institutions for women in confinement and for infants
See also 362.72 Institutions for foundlings
.16 Convalescents
.18 Wounded and disabled City ambulances
See also 614.88 Life saving
.19 Other
.196–.198 divided like 616–618
E.g. 362.1973 Orthopedic hospitals
.2 **Insane**
For other relations see Insane, Insanity in Relativ index following Tables
.3 **Idiotic Imbeciles Feebleminded**
For other relations see Idiocy, Idiots, in Relativ index
.4 **Blind Def Dum**
See also 371.91 Education
.5 **Paupers Poor**
For other relations see Pauperism, Paupers, in Relativ index
.51 Beggary Vagrancy Poorhouses
.52 Lodgings for poor
Dormitories, warm halls. Work in return for lodgings
.53 Money aid
Charity bureaus. Right of poor to be helpt. Savings funds
.535 **Taxation of poor**
.536 **Loans Loan funds for the needy**
.54 Aid thru necessaries and conveniences
Distribution of food, clothing and fuel. Cooperativ kitchens, ovens, stoves
See also 331.835 Popular restaurants
.55 Marriage Dowry Legitimation
.56 Free colonies: pauper or workmen's
.57 Land privilege
Lots for cultivation
.6 **Aged Infirm Bereft**
.61 Homes for the aged
.62 Retiring pensions
Funds for retirement and aid. Mutual aid funds
.625 **For widows and orfans**
.65 Infirm Aid in case of infirmity
.67 Deth: aid to survivors; widows, dependents
See also 362.625 Pensions for windows and orfans, 362.7 Aid to children
.7 **Childhood and youth: aid, protection, support**
Child welfare See also ethics, 179.2 Cruelty
See also 331.3 Child labor; 331.86 Apprentisship; 372.2 Kindergartens
.71 Nurslings
Giving over nurslings to 3d party. Crèches. Protection of infants
See also 362.15 Maternity hospitals
.72 Natural children Foundlings
.73 Orfans Orfan asylums Adoption and help
.74 Children neglected, illtreated, perverted
See also 179.2 Cruelty to children
.75 Various classes of children
Children of soldiers, sailors, public offisers

362.76 School enterprizes
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Cooperativ children's kitchens; pupils' lunch rooms; soup for pupils
.764 **Distribution of books and school supplies**
.766 **School patronage**
.77 Distribution of clothing
.78 Sick and crippld children
Special hospitals and sanitariums for children
.8 **Other**
.9 **Special countries**
Divided like 930–999; e. g. 362.942 Hospitals of England

363 Political
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364 Reformatory organizations and activities Criminology
See also 312.7 Moral condition of population, 343 Criminal law, criminal trials and procedure; 347.9 General and civil courts; 351.74 Police mesures; 352.2 Local police. For form divisions see Table 2 after Relativ index

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.3 **Criminal classes Offenders Delinquents**
.4 **Crime prevention**
.5 **Reformatory and correctional courts**
.6 **" mesures Parole Probation**
.7 **" institutions**
.8 **Discharged convicts**
.9 **In special countries**

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.2 Crime
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.22 Phisical environment and crime
Ecology of crime. Crime and topografy, climate, seasons, time of day, light and darkness, etc.
.23 Heredity and crime
Atavism and hereditary degeneration, family degeneration and crime. See also 364.253 Degenerate homes and crime, 575 Evolution, 613.9 Hygiene and heredity

364.24 Individual factors and crime
.241 General questions
.242 Phisical factors and crime
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.243 Abnormal mental factors and crime
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.25 Social factors and crime
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.252 Social progress and crime
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.253 Social environment and crime
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.254 Cultural factors and crime
Religion and crime. Education and crime: literacy, illiteracy; school retardation; lack of character training in home and school (see also 379.21 Education). The pres and crime (see also 070.11 Journalism). Theater and crime: motion pictures, etc. (see also 792 Theater). Art and literature and crime (see also 365.88 Prisons in literature)
.255 Leisure and recreation and crime
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.256 Social conflicts and crime
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.258 Politics and crime
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.259 Other social factors
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Influcnce of mode of production: capitalistic, socialistic, etc.; of occupation: special industries, child labor and crime (see also 331.3 Labor of children); of business cycles and economic crises; of labor disputes and strikes (see also 331.89 Disagreements between capital and labor); of unemployment (see also 331.137 Unemployment); of economic status: poverty, pauperism, welth (see also 339.1 Poverty, 339.4 Use of welth); of standards and cost of living, wages, struggle for existence (see also 331.2 Remuneration for work, 331.831 Cost of living); etc.
.28 Cost of crime
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.301 Theory
4 Language Nomenclature
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.31 General questions
.32 " types of criminals
Recidivists, repeaters, habitual and professional criminals. Occasional criminals, single offenders (1 crime). Criminals by accident. Evolutiv criminals, persons conscientiously at variance with prevailing opinion or custom
.33 Criminal anthropology
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.35 Predelinquents Predelinquency
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.36 Juvenil delinquents and delinquency Incorrigibility
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.362 Truants Truancy
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.363 Boys Gangs
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.364 Girls Gangs
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.372 Men offenders
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.373 Women offenders
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.42 Control of population
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.43 Control of economic conditions
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.44 Socialization of fundamental institutions
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.45 Social adjustment of children Child guidance
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.46 Preventiv police work

.47 Rational treatment of offenders

.48 Cooperation of public
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.5 Reformatory and correctional courts
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.52 Juvenil or children's courts
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.525 Practis and procedure
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.526 Records
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.527 Results Defects Reforms

.528 Relations with other agencies
With the home, foster homes, children's homes; school, church, community, social agencies, police, other courts, etc.

.529 Other topics

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.614 For special classes
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.615 Beneficiaries
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.616 Cooperation with public and private social agencies

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.619 Other topics

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.63 Probation Suspended sentence Repriev
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.631 General questions

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.64 Pardon Amnesty

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.71 General questions

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.722 Institutions for juvenils
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.723 Institutions for adults
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.724 Houses of correction

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.76 Reformatory administration
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.77 Reformatory reform

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.8 Discharged convicts and delinquents
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.23 Congregate system

.24 Solitary or separate confinement (Pennsylvania) system
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.4 Prisons for special classes of offenders
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.53 Types of buildings
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.9 In special countries
Divided like 930–999, e.g. 365.42 Prisons in England

366 Secret societies
.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians
See also 371.85 College secret societies
367 Social clubs
368 Insurance
See also 334.3 Cooperativ insurance
.01 Theory Scientific basis of insurance
Probabilities. Statistics. Tables: valuc, use
.1 Fire
See also 614.84 Protection against fire
.2 Marine Transportation
.3 Life
.31 Rates
.37 Annuities
See also 336.35 Public annuities; 519.5 Probabilities
.4 Social insurance Workmen's insurance
See also 331.254 Insurance for laboring classes
.41 Accident Liability
.42 Sickness
.424 Maternity insurance
.43 Old age Invalidity
.44 Involuntary unemployment
.45 Burial
.46 Child insurance
.47 Marriage endowment
.5 Casualty
Agricultural

368.6 **Against breakage or damage**
Glas
.7 **Boiler**
.8 **Other risks**
.81 Financial losses
Depreciation of values or rights; mortgages; land titles; transferable securities; credit; insolvency; civil responsibility; etc.
.82 Burglary Theft
.86 Reinsurance Counterinsurance
.91 **Government control Commissioners**
.93-.99 divided geograficly like 930-999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 **Hereditary and patriotic societies (American)**
.11 **General associations**
.111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of foren wars of the United States
.116 Order of the old gard
Incorporated 31 Jan. 1896; organized 15 Oct. 1896
.117 Naval order of the United States
.118 Society of American wars
.119
.12 **Colonial societies**
.121 Society of colonial wars
.122 Society of colonial dames of America
A New York society with chapters in other states; known also merely as Colonial dames of America
.123 National society of colonial dames of America
A federation of separately incorporated societies in about 40 different states
.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126 Colonial order of the acorn
.127 " society of Pennsylvania
.128 " daughters of the 17th century
.129
.13 **Revolutionary societies**
.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137 Children of the American revolution
.14
.141 Society of the war of 1812
.142 United States daughters of 1776-1812
.143 Military society of the war of 1812
.144 Society of the second war with Great Britain in the state of New York

369.145 Aztec club of 1847
.146 National association of veterans of the Mexican war
.147
.148
.149
.15 **Civil war societies, Union**
.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156 Society of the army and navy of the Gulf
.157 National association of naval veterans
.158 Society of the army of the Cumberland
.159
.16
.161 Woman's relief corps
.162 Woman's veteran relief union
.163
.164
.165 Sons of union veterans of the civil war
Formerly called Sons of veterans of the United States of America
.17 **Civil war associations, Confederate**
.171 Confederate survivors association
.172 Confederate veterans association
.173 United sons of confederate veterans
.174 " confederate veterans
.175 Daughters of the confederacy
.18
.181 Spanish war veterans
.182 Society of the army of Santiago de Cuba
.183 Naval and military order of the Spanish American war
.184
.185
.186 **Societies arising from World war of 1914-19**
1 American legion

.2 **Hereditary and patriotic societies other than American**
.21 **International**
.23-.29 **By country**
Divided like 930-999

369.4 **Young peoples societies**

For religious societies see 267.6

.41 **Mixt: boys and girls**

.42 Boys

See also 136.77 — The 'gang'

.43 Boy scouts

.46 Girls

.47 Campfire girls

370 Education

Disciplin in broad sense

SUMMARY

371 **Teachers Methods Disciplin**
- .1 Teaching and administrativ personnel
- .2 School organization, administration and supervision — School records
- .3 Methods of instruction and study
- .4 Sistems of education
- .5 Government Disciplin Authority
- .6 School premises and equipment
- .7 " hygiene Physical welfare of students
- .8 Student life and customs
- .9 Education of special classes

372 **Elementary education**

373 **Secondary Preparatory**

374 **Adult education**

375 **Curriculum Course of study**

376 **Education of women**

377 **Religious, ethical and secular education**

378 **Colleges and universities**

379 **Public schools Relation of state to education**

.1 **Theory of education Meaning Aim Value**

Including philosofy of education, science of education and general discussions of the means by which education is advanst. Not limited to any curriculum, school or clas of schools. For specific methods, pedagogics, see 371

.109 History of educational theory

Divided like 930-999

.15 Psychology applied to education

Imitation, suggestion, play etc. Divided like 150

e.g. function of memory in education 370.154

.16 Miscellaneous theories

.19 Special aspects .193 Educational sociology

.2 **Compends**

.3 **Dictionaries Cyclopedias**

.4 **Essays Addresses**

.5 **Periodicals**

General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

.58 Annuals Directories Catalogs

General; including discussions as to form and content of such publications. When devoted to a special topic clas with that topic, e. g. an annual devoted to kindergartens 372.2058. A catalog of a specific school is clast under number for that school

.59 Educational almanacs and kalendars for teachers

.6 **Organizations Conventions**

.61

.62 Associations Clubs

Permanent societies, their meetings and reports. Divided like 930–999

See also 371.103 Parent-teacher associations; 372.206 Kindergarten associations

.621 International

.63 Congresses Conventions

Occasional congresses and conferences: international or interstate

370.7 **Study of education Institutions and organizations for training teachers, supervizors, superintendents etc**
Means and methods, including teachers colleges, normal schools, institutes etc. For need of training, kind and amount, see 371.12

.71 Teachers meetings
Clas meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4–.9

.711 Plan and organization
Frequency, time, place, control, cost etc

.712 Courses of study Programs

.713–9 In special places
Divided geograficly like 930–999

.72 Teachers institutes
Divided like 370.71 above

.73 Teachers colleges Normal schools
Institutions primarily for training teachers; e. g. state normal schools, Teachers college of Columbia university; often with attacht ' model ', practis or demonstration schools, in which students teach under supervizion of their instructors. For training classes or courses attacht to schools not conducted primarily for training teachers etc see 370.75

.731 Plan and organization Aims and functions Scope
Length and time of terms. Support: public, private

.732 Courses Programs Credentials

2 **Courses and programs**

4 **Credentials**
Diplomas, degrees etc

6 **Training for special grades of schools**
Uze as general number. Each of following grades may be divided by 2 and 4 like .7322–4 above

62 Elementary schools
See also 372.207 Training for kindergartners

63 Secondary schools

64 Colleges and universities

65 Professional and teknical schools

.733 Adjuncts: practis, model or demonstration schools

.734–9 Special countries and schools
Divided geograficly like 940–999

.74 Education museums
Including exhibits at international expositions, state and county fairs, etc

.75 Training classes
Clas here teachers classes or courses attacht to schools conducted primarily for another purpose than training teachers. For institutions conducted primarily for training teachers see 370.73

.753 In secondary schools

.754 " colleges and universities

.755 " professional and teknical schools
Mainly courses in teaching special professional and teknical subjects

.76 Schools of education (also courses) for training supervizors, superintendents, administrativ offisers, etc
Harvard graduate school of education

.766 Training for special grades of schools
Divided like 370.7326

.77 Special pedagogic methods
Professionalization of subject matter

.78 Reserch in education
Educational reserch organizations. Reserch on special subject is clast with subject

370.8 **Polygrafy**

.81 Collected writings of a single author
If not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc

.82 Collected writings of several authors

.9 **History Description**
General works covering both ancient and modern history, and including history of institutions, practis, and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples

.901 Ancient

.902 Medieval

.903 Modern

.904 **20th century-**

.92 Educational biografy
Preferably clast in 923.7

.93–.99 History of education in special countries
Divided like 930–999

.9401 **Medieval Europe**

.9402 **Modern Europe**

371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

.1 **Teaching and administrativ personnel**
Teachers, professors, masters, instructors; administrativ and supervizory offisers (principals, superintendents, supervizors etc) other than governmental. See also 370.7 Training of teachers, 371.2 School administration, 379.15 Governmental school supervizion. For discussions relating specificly to men vs women see 371.18

.101 **Duties and responsibilities Mission**
Team work. Students rights

.102 **Personal influence**

.103 **Relations to parents**
Mutual duties of parents and teachers. Parent-teacher associations

.104 **Relations to community Public status**

.105 **Social status**

.11 Qualifications Personality
See also 371.18

.12 Need of training; kind and amount
General discussions of special preparation of teachers and professors for their vocation, including experience and growth or improvement while in servis. For training of teachers etc, defined in degrees, courses etc see 370.732

.13 Examination Certification Rating

.132 **Examination**

.133 **Certification Registration**
Certificates, licenses, permits

.134 **Rating Rating scales Standards**

371.14 Appointment Organization of teaching force
.142 **Appointment Contracts Tenure Transfer Discharge**
2 Appointment Election
3 Contracts
4 Tenure
5 Transfer Exchange
See also 378.12 Exchange of professors
6 Ending servis
62 Discharge Dismissal
63 Resignation
64 Retirement
.143 **Appointing body**
Board, committee, principal
.145 **Agencies**
Bureaus and associations for supplying teachers
.147 **Organization of teaching force**
2 Supervizors Principals Superintendents Hedmasters
For principals and superintendents as appointing offisers see 371.143 for supervizors as governmental offisers, state and county superintendents, etc see 379.15
3 Clas teachers Instructors Professors Masters
For private instruction, tutors, governesses etc see 373.1; for college and university faculty, professors etc see 378.1
.15 Professional status
Permanent profession vs steppingstone theory
.16 Salary and promotion Compensation Amount of servis
For pensions and insurance see 371.17
.161 **Salary**
2 Increases
4 Bonuses
.162 **Fees**
.163 **Allowance for expenses**
.164 **Residence Living expenses**
.165 **Promotion Advance in rank**
For salary promotion see 371.161
.166 **Hours Daily or weekly servis**
.167 **Vacation Yearly servis**
.168 **Sabbatic year**
.17 Pensions and insurance for teachers
Carnegie pension fund

371.18 Men vs women as teachers
.182 **Men as teachers**
Need and place of men on teaching force
1 General considerations
2 Personal relations Qualifications Personality
Subdivisions 1–5 may be added, corresponding to 371.101–.105
3 By grades and types of schools
31 In primary schools and kindergartens
32 " grammar or intermediate schools
33 " secondary or high schools
34 " colleges and universities
35 " professional and teknical schools
36 " girls schools
37 " boys "
38 " evening schools
.183 **Women as teachers**
Feminization of teaching force. Divided like 371.182
.19 Other topics
.2 School organization, administration and supervizion School records
Statistics. Publicity. Diary. 'Logbook.' Progress book. For general discussions; records of an individual school ar clast with that school. For administrativ and supervizory personnel other than governmental see 371.1472. For government of students, disciplin, see 371.5. For government supervizion see 379.15
.21 Admission Enrolment Matriculation
For college entrance requirements see 371.214. Standards of an individual school ar clast with that school
.211 **Primary school and kindergarten standards**
Divided like 930–999
.212 **Grammar or intermediate school admission standards**
Including standards of German bürgerschulen. Divided like 930–999
.213 **Highschool standards**
Including standards of German gymnasia, French collèges and lycées. Divided like 930–999
.214 **College standards**
Undergraduate and nonprofessional graduate courses in colleges and universities. Divided like 930–999
.215 **Professional and teknical school standards**
Divided like 930–999
.22 Tuition fees Free tuition Scholarships
See also 371.162 Professors fees; 379.13 Tuition fees of nonresident pupils in public schools; 378.34 College scholarships
.221 **Free tuition**
.222 **Scholarship funds Student endowments Student scholarships**
See also 378.32 Endowment of reserch, 378.34 College scholarships
.223 **Traveling scholarships**
See also 378.34 Traveling scholarships in colleges and universities
.226 **Student income and expenses**
For income and expenses of college students see 378.36

371.23 Terms Semesters Quarters Vacations Holidays Breaking up
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases 371.712

.232 **Summer or vacation schools**
See also 374.8 Adult summer schools, 378.142 College and university summer schools

.234 **Terms in 2 or more places**
For floating schools see 371.392

.24 Sessions Hours Recess
For exercize see 371.73 Care of body

.25 Classes Grades
For general discussions of size of clas, ungraded classes, provision for individual differences by special classes or groups. For individual instruction see 371.394. For psychology of individual differences see 136.7
Childstudy. For grading of schools, see 379.17

.253 **Length of school courses; e. g. 6 year course**
See also 378.241 Length of college course

.26 Marking sistems Educational mesurements and tests
Credit sistem: meaning and value of unit, semester, hour etc. For intelligence tests see 151.2

.27 Examinations: oral, written Cramming
See also 428.9 Language
For competitiv examinations see 371.535

.28 Promotions Demotions Retardation

.29 Other topics

.291 **Ending student connection**
See also 371.56

2 Graduation Commencements Diplomas
May be subdivided like 371.21. See also 378.2 College degrees

3 Student mortality Dropping out

.3 **Methods of instruction and study**
Under the heds below clas discussion of pedagogic value of these methods. For methods of teaching specific subjects see those subjects; for their educational value see 375 Curriculum, e. g. teaching of mathematics 510.7, place of mathematics in curriculum 375.51

.31 Rote or concert teaching

.32 Textbooks Recitations
Collateral reading. Assignments. Home work. Discussion of use of textbooks and desirable qualities of textbooks in general. Textbooks themselvs and discussions of textbooks on special subjects ar clast with those subjects. Recitation as method in which pupil lerns and recites an assignd lesson; for broad sense as including all types of clasroom activity see 371.3

371.33 Lectures Oral and visual instruction

.332 **Assemblies Opening exercizes Dramatization**
As methods of instruction

2 Assemblies Opening exercizes
Home room activities as methods of instruction. See also 371.892 Student assemblies

5 Dramatization
Dramatic method in education. See also 371.895 School plays

.333 **Mecanical oral instruction**
Radio, broadcasting; phonograf, etc.

8 Applications and relations
Divided like the whole clasification

.335 **Visual instruction Lantern slides Moving pictures**

1 General questions

2 Pictures

22 Stereopticon lantern and slides

23 Motion pictures

3 Charts

4 Maps

5 Blackboard

8 Television

.34 Developing or inductiv method

.35 Art of questioning Catechetic method Socratic method

.36 Project method Topical method

.363 **Correlation**

.365 **Special days Special weeks**
Celebrations. Programs. Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter etc

.37 Seminary method Seminar Discussion

.38 Laboratory method

.39 Other

.391 **International schools Exchange of pupils**
See also 371.1425 Exchange of teachers, 378.12 Exchange of professors

.392 **Floating schools or colleges**
Combining travel and shipboard instruction

.393 **Trips Excursions Visits**

.394 **Individual instruction**
By regular teacher or tutor, at home or at school. Batavia sistem. Dalton plan, Winnetka plan, Pueblo plan etc. See also 373.1 Private instruction

.395 **Small classes**
See also 371.47 Quincy sistem

371.4 Sistems of education
For Fröbel's sistem see 372.2 Kindergarten

.41 Monitorial sistem Mutual sistem
Bell. Lancaster

.42 Educational guidance Vocational guidance and training

.421 **General questions**

.422 **Student personnel work**

.425 **Vocational guidance**
Clas here also works on choice of vocation, even tho not made under school direction

.426 **Industrial education Manual training**
For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus etc. For subjects of study see 375.01–.9. For individual schools see 607 or 378.99

1 Educational value
2 In elementary schools
3 " secondary schools
4 " special schools
5 " colleges
8 Special subjects
Material on the various vocational subjects taught may be kept together here, .82–.89 being divided like 620–690, and, for material not thus provided for, .81 being uzed, subdivided like main clasification; but in general practis such material is better clast under other numbers, i. e. place of these subjects in the curriculum 375.01–.9, elementary manual training 372.5, skild work under number for special subject
9 History and development
Divided like 930-999

.43 Military organization Military instruction

.44 Pestalozzian
Clas here all Pestalozzi's educational writings

.45 Jacotot

.46

.47 Quincy sistem

.5 Government Disciplin Authority

.51 Rules

.52 Attendance Truancy Tardiness Absences
Clas data relating to special school with number for that school. See also 379.23 Compulsory education

.53 Rewards Inducements
Prizes, favors, immunities, approbation, interest

.535 **Interschool contests**
Competitiv examinations. Literary contests. For interschool and intercollegiate debates see 374.245. For interschool athletics see 371.75

371.54 Punishment Disciplinary penalties
Limits of school jurisdiction. Disciplin of consequences

.55 **Corporal punishment**

.56 **Other punishments**
Confinement; tasks; expulsion; suspension; discharge; probation

.57 Personnel responsible for disciplin Monitors

.58 Moral government Alcott sistem

.59 Student self government College sistems

.592 **Self government**

.593 **Participation in school management**

.595 **School city Ray sistem**

.6 School premises and equipment

.61 Grounds Site
School playgrounds; athletic fields, stadiums

.62 Bildings
Requirements peculiar to schools. See also 727 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate bildings

.621 **Study, lecture and assembly rooms**

.622 **Library Museums**
Art, science etc. See also 022 Library bildings; 371.64 Function of school libraries; 021.3 Relation of libraries and schools; 027.7 and 027.82 Reports of college and school libraries

.623 **Laboratories Observatory Machine shop**
See also 542.1 Chemic laboratories; 522.1 Observatories; 371.66 Scientific apparatus and supplies

.624 **Gymnasium Swimming pool**
See also 725.85

.625 **Other special rooms or bildings**
Dormitories, clubs, infirmaries, Y M C A and Y W C A

.626 **Sanitation Lavatories**

.627 **Lighting**

8 **Fireproofing**

.628 **Heating Ventilation**

.629 **Accessories**
Elevators, lifts, telefones etc

371.63 Furnishing and decoration

.631 **Furniture**
Blackboards, desks, chairs, benches. For globes and maps see 371.6791

.632 **Musical instruments**

.633 **Floors: bare, coverd**
See also 721.6 Architectural construction
022.96 Library bildings
645.1 House decoration

.634 **Walls: tints, covering**

.635 **Decoration**
See also 729 Architectural decoration

.636 **Pictures Frescos Glas**

.637 **Sculpture**

.638 **Plants**

.639 **Other decoration**

.64 Libraries
Caracter and functions. For relation to public library see 021.3; for relation to other school rooms and bildings see 371.622. See also 027.7 College libraries, 027.82 School libraries

.641 **Relations of library to faculty and students**

.642 **School traveling libraries**

.643 **School reading lists**
See also 028.5 Reading of young

.644

.645 **Elementary school libraries**

.646 **Secondary school libraries**

.647 **College and university libraries**
Departmental and seminar libraries

.648 **Professional and teknical school libraries**
In 371.645–.648 may be clast matter pertaining to desirability and scope of such libraries, tho it is better in 027.7 and 027.82, with reports and other matter pertaining to their management

.65 Museums: caracter and functions
Divided if wisht like 010–999: e.g. 371.655 Science museums; 371.657 Art museums. Limited to caracter and functions of museums attacht to teaching institutions; see also under museum economy 069.015–.016. See also 708 Art museums, and form division 074 under special subjects

.66 Scientific apparatus Laboratory equipment and supplies
Divided like 500; e.g. 371.662 Astronomic observatory

.67 Other apparatus, equipment and supplies
Divided if wisht like 010–999; e. g. 371.6791 Globes, maps etc

371.7 **School hygiene Physical welfare of students**

.71 Helth and safety of students Overstudy Fatigue

.711 **Sanitary conditions and inspection Helth crusades**
Board of helth. For sanitary engineer's side see 371.626

.712 **Medical inspection Clinics School nurse**
For personal conditions affecting helth and intellectual progress; e.g. clenliness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

.713 **Posture**
See also 371.631 Furniture (illdesignd desks and seats)

.714 **Fire preventiv and protectiv mesures Fire drils**
For fireproof schoolrooms and bildings see 371.6278; for fire protection apparatus see 371.629. See also 614.84 Fires: prevention, extinction, apparatus etc

.716 **School meals**
Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc see 642.58

.718 **Open air schools**

.72 Care of eyes Effect of study

.73 Care of body Gymnastics Calisthenics
For sistems of gymnastics or physical training, and books of exercizes see 613.71

.731 **Educational influence of physical training**

.732 **Gymnastics Calisthenics**
2 In elementary schools
3 " secondary schools
4 " colleges
5 " special schools
6 " girls schools
7 " boys "
8 " evening schools

.733 **Military dril**
For military organization of school see 371.43

.734 **Fencing Boxing Wrestling**

.735 **Swimming Bathing**

.736 **Riding**

.737 **Walking School promenades**

.74 Recreations Games etc Athletics Diversions
See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

.75 Championship games Boat races Inter-school athletics
For other relations see Games in Relativ index following Tables

371.8 Student life and customs

Various aspects of student life and student activities outside regular courses of study

See also 784.62 Student songs; 378.29 College costumes

.805 **Student periodicals**

Discussion here. Periodicals themselvs preferably with their schools

.81 Student ethics Student honor Honor sistem

Ethical topics relating distinctly to school life; e. g. cribbing, cheating, copying, prompting, use of keys and ponies. Ethics of general application ar clast in 170

.82 Fagging and hazing Bullying German student duels

.83 Student organizations

Clas under 371.83–.84 books covering both secret and nonsecret societies, also nonsecret societies only

.836 **Ancient student societies**

.837 **Medieval**

.838 **Modern**

.839 **By country**

Divided like 930–999

.84 **By subject**

Divided like main clasification, e.g. 371.845 Scientific, 371.848 Literary. See note under 371.83

.85 **Secret societies**

Clas all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

.851 General

.852 Honorary

Phi Beta Kappa etc

.854 By subject

Divided like main clasification. Clas here (in preference to 371.855–.856) men's or women's secret societies, limited by special subject

.855 Men's societies Fraternities

.856 Women's " Sororities

.857 Highschool

.86 Society premises Society houses Halls Temples etc

.87 Student houses Lodgings Dormitories

.88 Commons Student restaurants Eating clubs

.89 Other topics

Celebrations, customs, triumfs, burnings, anniversaries, ceremonious receptions, student banquets, etc

.892 **Student assemblies**

See also 371.332 School assemblies as method of instruction

.895 **School plays Pageants**

Divided by language like 400; e.g. 2 English, 3 German

.896 **Clas days**

Of special institution, with institution

.898 **Colors Cheers**

Of special institution with institution

371.9 Education of special classes

General questions; kind and methods of education for these classes. For institutions see 362, 364. For study of abnormal children see 136.76 Combinations of mentally defectiv with either physically or morally defectiv ar clast in 371.92

.91 Physically defectiv

See also 362.4 Asylums for blind and def

.911 **Blind**

See also 655.38 Printing for the blind

.912 **Def**

Finger alfabet

.913 **Blind-def**

.916 **Crippld**

.917 **Feeblebodied**

See also 371.718 Open air schools

.92 Mentally and morally abnormal

.922 **Mentally defectiv**

See also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks etc

.927 **Speech defectivs**

See also 808.5 Elocution; 784.93 Vocal culture

.93 **Morally defectiv Delinquents**

See also 364 Reformatories, Criminal classes

.94 Border line cases

.95 Supernormal

.955 **Exceptionals Gifted children Precocity**

.96 Social classes

See also 375.007 Courses for different social classes

.961 **Princes**

.962 **Nobles**

.963 **Aristocracy Welthy clas Gentry**

.964 **Middle clas**

.965 **Working clas**

.966 **Dependents**

See also 362 Hospitals, asylums and allied societies

5 Paupers

See also 377.7 Charity schools, 379.22 Illiteracy and pauperism

.97 Special types

See also 136.77 Boys, the 'gang'

.974 **Freedmen Negroes**

See also 378.75–.76 for degree conferring colleges

.975 **Indians**

.976 **Orientals**

.98 Special nationalities

Special schools for foreners; e.g. French, Hungarians, Russians, Japanese in United States. Divided like 930–999, e.g. 371.9844 Special schools for French

.99 Coeducation of races

372 Elementary education

Methods. Curriculum. Primary schools. Dame schools. Infant schools (under 7 years). Preschool education. For Day nurseries, crêches see 362.71; for Minding schools see 362.75

.01 **Pedagogics and didactics of elementary schools**

.1 **Childstudy**

May be uzed like 136.7 by those who insist on having childstudy with education

.2 **Types of elementary schools** **Kindergarten**

Preschool education, infant schools. Individual schools may be clast with their respectiv types, dividing after 09 like 930–999, or groupt together under 372.9. See also 371.44 Pestalozzian, for theory and erly history. Put Fröbel's work and development of his sistem here

.201 **Theory** **Principles**

.202

.203

.204 **Essays**

.205 **Periodicals**

.206 **Societies**

.207 **Training of kindergartners**

.208

.209 **History**

Divided if wisht like 930–999

.21 Methods

.211 **Gifts** **Occupations**

.212 Gifts

.213 Occupations

.214 **Stories**

.215 **Songs** **Games**

2 Songs

3 Games

.22 Influence of kindergarten

.23 Relation to other schools

.24 Other types of elementary schools

.241 **Primary schools**

Dame schools, ABC schools, petty schools

2 Nursery schools

.242 **Grammar or intermediate schools**

Common school education, higher elementary schools

.3 **Sensory training** **Observing powers**

Object teaching; science

.31 Methods

Montessori

.35 Nature study

Divided like 500–599; e.g. Birds 372.35982

.36 Gardening

372.4 **Reading** **Alfabet** **Fonics and word methods** **Spelling**

See also 428.6 Elementary readers

.45 Simultaneous teaching of reading, writing and spelling

.5 **Elementary writing and manual work**

See also 741 Freehand drawing

.51 Writing

First efforts, imitating printed roman letters

.52 Drawing Design

See also 741 Drawing

.53 Clay modeling

.54 Sewing etc

.55 Elementary basketry, weaving and braiding

.6 **Elementary grammar** **Language lessons**

See also 400 Philology, subdivision 8 under each language

.61 Mother tung National language

.65 Second language

.7 **Elementary arithmetic**

Including mental arithmetic. See also 511. For Abacus see 511.2

.8 **Other studies**

Divided if wisht like 010–999; e.g. 372.82 Religion

.891 Elementary geografy

See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geografy is more useful to a student of elementary schools and methods than to one interested in Geografy, Description and Travel. Text books, except primary, go with their subjects

.9 **Special countries and schools: history, reports, catalogs etc**

Divided like 930–999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 Secondary Preparatory

Academic; highschools; junior highschools. Clas here discussions of general theories, methods, curriculums etc pertaining specificly to secondary education, regardless of source of support. Clas here also all private or endowd secondary schools for boys or both sexes; all public (taxsupported) secondary schools for boys or both sexes may be clast here or in 379.4–.9; all elementary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Clas methods and questions peculiar to monastic, diocesan and parochial schools in 377, but clas the schools themselvs in 372, 373, 378 etc, according to their grades. For specific topics see 371

.1 **Private instruction: tutor, governess, coach**

.11 Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

373.2 Types of secondary schools

Individual schools may be clast with their respectiv types, dividing after 09 like 930–999, or in 373.4–.9 or 379.4–.9

.22 Day schools Boarding schools

.222 Day schools

.223 Boarding schools

.23 As to organization

.232 4-year highschools

.234 6- " "

.236 Junior "

.238 Senior "

.24 As to curriculum

.241 Academic

.242 Classical

Latin etc highschools

.243–.249 Other types by subject

May be divided like 300–900, e.g.

373.24355 Military; see also 371.43
.245 Scientific, or scientific and teknical combined
.246 Industrial, vocational; see also 371.42
5 Commercial

.3–.9 Special countries and schools: history, reports, catalogs etc

Divided like 930–999; e. g. 373.42 Higher English schools, Eton, Harrow etc

374 Adult education

Home education. Self education and culture. Cultural, personal aspect of education

Subdivided by 0 with form numbers if wisht; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings

The term Adult education covers the broad field of self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions

For relations of this work to libraries, the natural centers for such activities, see 021.2. See also 378.13 University extension

With or without personal guidance

.1 Solitary study Private reading Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses etc. Development of effectiv reading

Reading lists themselvs, syllabuses and other aids to study belong with other bibliografies (016) or with compends under their subjects. They may, however, if preferd, be kept together under 374.19, divided like the clasification; e.g. syllabus on English history 374.19942; on library economy 374.1902

See 028, for preparation of guides, policy, methods etc

For vocational guidance see 371.425

374.2 Associated study Clubs

.21 Study clubs

Clas here 'travel clubs' which study about places without traveling to see them. See also 374.25

.22 Reading circles Book and periodical clubs

.23 Lyceums Literary clubs

.24 Debating societies Oratoric clubs

.245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

.25 Traveling clubs Educational value of travel

Clubs which travel for education. See also 371.392, 371.393, 374.21

.28 Community centers

Whole community as a club of varied interests. Put here discussion of use of school bildings for various community purposes

.3 *With personal guidance*

Either alone or in groups, clubs or classes

.4 Correspondence teaching Manuscript aids

Clas here works on value, history and methods of correspondence teaching; also printed general correspondence courses. Courses on special subjects ar better clast with their subjects

.43 Societies for encouraging home study

.44–.49 Correspondence schools

General schools divided like 940–999. Special schools ar better clast with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.714

.5 Lectures

Discussion of lectures as a method of education, either as single lectures, or as a series of lectures on diffcrent subjects; lists of lectures; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1 Lectures 3 Clas 5 Guided reading 7 Examination
2 Syllabus 4 Papers 6 Club

Lectures themselvs, whether issued separately or in collections, ar clast with subject treated

.6 Extension courses Lecture study

.62 Lecture study

3 or more lectures on the same subject, with 2 or more of the 7 factors

.64 Extension courses

5 or more lectures on the same subject with 4 or more of the 7 factors. For extension courses taken for credit under college or university auspices see 378.13

.8 Continuation schools

Summer, winter, vacation, night (adult) etc. German auxiliary schools. Divided like 930–999. For public (taxsupported) evening or night schools see also 379.19

.9 Central organizations State departments Institutes

For encouragement of self education, e.g. N Y state library extension division, Brooklyn institute, Cooper institute, Chautauqua etc. May be divided like 930–999

375 Curriculum Course of study

Clas here general discussions of principles and methods of curriculum construction. Curriculums for special kinds of schools or on special subjects ar better clast with those schools or subjects; e.g. 373 High-school curriculum; 375.9 History course

.001 Order of studies

.002 Single course Mandatory studies Required courses

.003 Parallel courses

.004 Optional courses Electiv sistem

.005 Balanst courses Group sistem

Special topics

.006 Overcrowding curriculum Coordination of studies

Economy in curriculum. Minimum essentials

.007 Courses for different classes of society

Liberal education. Relativ value of studies

1 For bredwinning vs culture

2 Failure of course to develop efficiency

.008 Courses for schools of special kinds

Clas here general discussions only. Clas material relating to special schools or special kinds of schools under their respectiv clas numbers

.009 **Courses for institutions in special countries**

Divided like 930–999. See also 379.4–.9

.01–.9 Subjects of study

Divided like the clasification 010–999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum

Methods of teaching individual subjects, also textbooks, may be kept witn educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks;

e.g. 375.32 B Educational value of political science

375.32 C Place of political science in the curriculum

376 Education of women

See also 396.4

.1 Physical capacity of women

.2 Mental capacity of women

See also 136.1 Mental caracteristics as influenst by sex

.3 Home or domestic instruction

By tutor or governess. See also 374

.4 Fashionable education 'Finishing' schools

Discussion. For prospectuses, catalogs etc see 376.9

.5 Convent education

Discussion. For prospectuses, catalogs etc see 376.9

.6 Higher education of women

Secondary and college

.63 Secondary: preparatory schools for girls

All between elementary and college. Discussion. Girls taxsupported high-schools may be clast in 376.9 or 379.4–.9; for private preparatory schools see 376.9

.64 Influence of college education on women

Duties of college women as such

.66 Associations of college women

Association of collegiate alumnae. Alumnae of a single college with that college

376.7 Coeducation Segregation Separation

Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized women's colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith etc

Clas here by attraction general discussion of coeducation of sexes in college and secondary school

.8 Colleges for women

Divided like 930–999. Degreeconferring colleges go here. Arrange material of each college by 'Table for school and college publications' following 378.99. All other schools for women go in 376.9 or 379.4–.9

.9 Special countries and schools: history, reports, catalogs etc

Divided like 930–999; e.g. 376.943 Education of women in Germany

377 Religious, ethical and secular education

Interrelations of these types of education. Miscellaneous educational activities of religious and charitable organizations, regardless of place, time or subject, except religious instruction. For inculcation as wel as actual teaching of definit ethical or religious doctrins see 375; e.g. instruction in duties of citizenship, patriotism 375.1721 course in Christian evidences 375.239. Clas catalogs, history etc of a denominational school regardless of religious affiliation, in 372, 373, 376, 378, according to grade or type of school, but clas here books dealing in general with schools of a certain denomination or order; e.g. educational sistem of the Jesuits 377.35. For training for religious work as a profession see 207; for parish educational work under direction of pastor see 257; for religious instruction by Y M C A see 267.352 Religious department, 267.3572 Religious work in Boys department; for religious instruction by Y W C A see 267.552 Religious department, 267.5572 Religious work in Girls department; for Sunday and week day schools for religious instruction see 268

.1 Religious instruction Bible in public schools

Discussion of sectarian instruction or influence in public schools or in non-sectarian private schools, public school teachers in religious garb, conscience clause of English elementary school code, weekday religious education. See also note under 377

.2 Ethical education

Ethical training, without religious teaching, as advocated by ethical societies See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

.3 Monastic or abbey schools

Écoles congréganistes. Divided like 271. See also 271 Religious orders; 376.5 Convent education of girls

.4 Diocesan schools Cathedral schools

Domschulen, stiftschulen

.5 Parochial schools

See also 257 Parish educational work

.6 Missionary schools

Establishment and conduct of schools as part of mission work. See also 266 Missions

.7 Charity schools

Mainly for elementary education. See also charitable institutions 362.76

377.8 **Christian church and education**
Divided like 280; e.g. 377.82 Relation of Roman catholic church to education. Discussion of denominational schools or educational associations, e.g. 377.82 Association of Catholic colleges of United States
See also 261.5 Church and intellectual development

.9 **Nonchristian religions and education**
Divided like 290; e.g. 377.97 Relation of Mohammedanism to education

378 Colleges and universities
With power to confer degrees; also junior colleges. For men only or for both sexes. For women's colleges see 376.8
Methods and curriculum. For full table of form divisions see Table 2 after Relativ index

.01 **Definition of college and university Aim**
Advantages and influence of college training; e.g. on business capacity

.014 College terminology 'Slang'
Including also student slang. See also 427, 437 etc

.05 **Academic periodicals**
Periodicals devoted to college and university interests. Those issued by colleges, schools etc ar scatterd either by subject or under college numbers

.06 **General college associations**
Association of New England colleges. See also 370.6

.068 Associated alumni University clubs
For alumni associations of any one college, see T under college number

.069 Duties of college men as such
Obligations imposed by their greater knowledge

.1 **Organization Government Location Scope, field**
Classes, colleges, graduate departments, etc

.11 Administrativ offisers
President, deans etc

.113 **Disciplinary offisers Judicial corps University court**

.12 Teaching staf Faculty
Exchange of professors. For qualifications see 371.11

.121 **Freedom of teaching**
See also political science, 323.444

.13 University extension
Conducted by universities. See also 374

.14 College year Summer or vacation instruction
All the year session

.142 **Summer or vacation instruction**

.15 Size Location Grade

.152 **Large vs small**

.153 **City vs country colleges**

.154 **Advanst or senior colleges Junior colleges**

2 Advanst or senior colleges

3 Junior colleges

.155 **Departments**

2 Undergraduate

3 Graduate

378.2 **Academic degrees and costume College colors**
See also 614.21 Medical degrees

Degrees

.21 Degree conferring body and powers
College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees
Pas, honor, cum laude, magna cum laude, etc

.23 Degrees in course
Advanst degrees conferd at specified periods on graduates in good standing, without evidence of advanst attainments

.24 Degrees for completion of courses
With or without examination

.241 **Time and residence required Length of college course**

.242 **Subjects allowable for liberal degree**
Whether teknical courses should be credited toward liberal degrees; theses

.243 **Differentiation of degrees: B A, B S, B L, etc**

.244 **Degrees on examination**
With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery
Bogus degrees

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and clas College flags

.29 Academic gowns and hoods

.3 **Endowment of reserch Fellowships Scholarships Student aid**

.31 Higher educational foundations and endowments
See also 371.222 Student endowments in general

.32 Endowment of reserch
Carnegie institution. Rockefeller institute. Incentivs to reserch. Prizes. Opportunities for reserch. Nobel prizes. Competitions

.33 Fellowships

.34 Scholarships
Rhodes scholarships. Traveling scholarships

.35

.36 Student income and expenses

.362 **Loan funds Student aid societies**

.364 **College employment bureaus Faculty committees**
Other organizations for securing work for students

.365 **Student ernings**
Working way thru college. Ways of erning

.368 **Student expenses: extravagance, economy**

378.4–.98 Special countries and colleges: history, reports, catalogs etc.

For women's colleges see 376.8

Divided like 940–998; e.g. 378.42 English universities, 378.741 Maine colleges The various colleges of any section may be given each a number or be arranged alfabeticly. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures) uzed to designate the college; e.g. a history of Harvard college would be markt 378.744 HE, and a second history would be numberd 378.744 HE1. The practical convenience of this plan outweighs the objection that it introduces clasification into the book numbers

If preferd, colleges and universities may be arranged alfabeticly under continent number, insted of being clast first by country or state; e.g. European universities under 378.4 in alfabetic order regardless of country, United States colleges and universities all in one alfabet under 378.73

.99 Professional, teknical and other special schools Professional education

Best kept with subject, but may be compactly groupt here. Divided like the clasification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A Charter and statutes
B Trustees Regents Resolutions, reports etc
C Administration President, chancellor Reports etc
D Finances Tresurer's reports
E History Foundation, growth etc
F Biografy Necrology
G General catalogs Triennials etc
H Annual catalogs Attendance, registers etc
I Handbooks Circulars of information
J Bulletins Official periodicals
K Commencements, inaugurals etc Baccalaureate and other addresses
L Programs Tickets Memorabilia
M Faculty (as a body) Publications Regulations Certificates for admission
N Lectures Clas manuals Examination questions
O Student theses Orations, essays etc
P Student catalogs Society annuals, etc
Q Student periodicals
R Student societies, including periodicals
S Student miscellany Songs Clas day, etc
T Alumni Societies, committees etc
U Classes Histories, records etc
V Pictures Clas albums
W Bildings and grounds Descriptions, maps etc
Z Schools: divinity, law, medical etc
Better clast with subject; e.g. Divinity schools 207

379 Public schools Relation of state to education

.1 Public school sistem

.11 School funds School finance Cost to public

.12 National and state aid to education

.121 Public aid to schools

Exemption vs taxation

2 Public

3 Private

4 Sectarian

5 Nonsectarian

.123 Land grants

See also 336.14 Public finance

.124 Subsidies

.13 Local support

Taxation. Bonds. Endowment. Nonresident tuition. See also 336.28 Taxation

.14 School laws and regulations Divided like 930–999

School age. Working permits

.15 School supervizion and control: national, state and local Centralization

Standardization of schools. For school administrativ offisers see 371.1472

.151 National

.152 State: department, inspectors etc

.153 Local: superintendent, school committee, board

Supplies, free textbooks, etc. For school meals see 371.716. For school superintendents, principals, supervizors etc, as administrativ offisers employd by local authorities, see 371.1472

2 County

County school superintendent, etc

3 Township

4 City District Ward

Local school board, etc

.154 Individual: parents and others

.156 State textbooks

379.16 Public colleges and universities: national, state and local
Only discussion here; for individual colleges see 378.4–.9

.17 Secondary and elementary schools
Discussion

.171 **Highschools Academies**
6-year highschools, junior highschools, etc. Clas individual schools in 379.4–.9; or, if preferd, in 373 Secondary schools for boys or both sexes, 376.9 Girls secondary schools

.172 **Grammar or elementary schools**
Clas individual schools in 372; see note under 372.2

.173 **Rural schools**
Village schools. Clas individual schools according to grade or type in 372, 373, 376.9 or 379.4–.9

.175 **Central plan Consolidated schools Conveying pupils**

2 Conveying pupils

.18 Primary schools Kindergartens
Questions of public maintenance. Clas individual schools in 372; see note under 372.2

.19 Part time schools Evening schools
See also 374.8

.2 Illiteracy Instruction of illiterates

.21 Illiteracy and crime Education and crime Criminal illiterates

.22 Illiteracy and pauperism Indigent illiterates
See also 339.1 Pauperism; 362.51 Poorhouses

.23 Compulsory education
See also 371.52 Truancy

.24

.3 Public vs private and endowd schools

.4-.9 Special countries, sections, cities etc
Divided like 940–999: e.g. 379.73 Reports of U S commissioner of education; 379.744 Education in Massachusetts; 379.7471 in New York city. Keep state departments separate from city and other local sistems by numbering state reports, A1–A8, uzing A9 followd by author's initial (lower case) for history of schools of any state; e.g. Fitch's *New York public schools* 379.747 A9f

380 Commerce Communication

Public utilities. Teknical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations

.1 **Theory**
Subdivisions of 380.1 may be uzed after 01 under 381–389 and any of their subdivisions

.11 Supply and demand

.12 Trade channels Commercial expansion Markets

.122 Market surveys and analisis
See also 658.83 Business methods

.123 Commercial forecasts

.124 Trade cycles Commercial fluctuations

2 **Commercial crises Panics Depressions**
See also 332 Financial crises, 338.55 Production crises

.125 Cooperativ marketing
See also 334.6 Cooperativ productiv associations, 658.83 Business methods

.126 Commercial arbitration

.13 Value of commerce and means of communication

.14 Terminology Nomenclature

.16 Ownership and control of business and public utilities
For control of a specific utility see its own number, e.g. 383 Postal servis, 385 Railroads

162 By government
2 **National** 3 **State or provincial** 4 **Municipal**

.163 By private enterprize

.164 Joint ownership and control

.165 Of business

2 **By government**
22 National 23 State or provincial 24 Municipal

3 **By private enterprize**

4 **Joint ownership and control**

.166 Of public utilities

2 **By government**
22 National 23 State or provincial 24 Municipal

3 **By private enterprize**

4 **Joint ownership and control**

.167 Ownership
Divided like 380.162–.166

.168 Control

1 **General questions**
Divided like 380.162–.166

2 **Regulation**
Divided like 380.162–.166

22 By government

221 General questions
2 Inspection 3 Franchizes 4 Licenses

3 **Operation**
Divided like 380.162–.166

.18 Commercial methods
See also 658 Business methods

381 Domestic trade

382 Foren trade

Including trade between mother country and colony

.2 **Official representativs Consulates Consuls**

Consular reports

383 Postal servis

See also 353.4 U S administration

.1 **Transport by mail**

Letters, parcel post, etc

.2 **Postage stamps Postage permits**

Precanceld stamps

.21 International stamps

.22 Philately Stamp collections

.3 **Banking by mail**

Money orders; postal orders. See also 332.22 Postal savings banks

.4 **Organization of postal servis**

Government post, private post, postal union

.49 In special countries

Divided like 930-999

384 Telegraf Cable Telefone

See also 621.38 and 654

.1 **Telegraf**

.4 **Cable**

.5 **Radio Wireless**

Telegraf and telefone

.6 **Telefone**

385 Railroads

Government ownership or control. Interstate commerce commission. See also 388.4 Street railways, 625 Railway engineering, 656 Railroading

.1 **General questions**

.12 Relations to other means of transport

.122 Railways vs highways

.123 " " street railways

.124 " " interurban lines

.126 " " waterways

2 **Inland**

3 River 5 Lake

4 Canal 6 Ferry

7 **Ocean**

.127 Railways vs air transport

385.13 Financial questions

.132 Rate skedules Tarifs

1 **General questions**

Principles of rate making, differential rates, zone rates, etc. may be divided like 385.1323

2 **Passenger and baggage rates Fares**

22 According to number and frequency of trips

Commutation or suburban rates, etc

23 According to distance and destination

232 General and international rates

233 Local rates

234 Transit "

235 Thru "

236 Round trip rates

2 **Going and returning by same route**

3 " " " " **different routes Circular trips**

24 According to time

242 Day rates

243 Night rates

244 Holiday rates Vacation rates

Excursion rates, etc

245 Seasonal rates

2 Spring 3 Summer 4 Autum 5 Winter

25 According to speed and form of transport

252 According to speed

253 **Rates on slow trains**

254 " " **fast** "

Rates on extra fare trains

255 According to classes or form of transport

1st, 2d, 3d etc; de luxe, tourist etc

256 **Sleeping and parlor car rates**

Pullman fares, etc

26 For special classes of persons

Reduced fares, passes, free transport

261 Officials

Government, railway etc. See also 328.347 Legislativ railway passes

262 Military

263 Laborers and railway employes

See also 331.991 Transport of workers

264 Students, clergy, teachers etc

265 Children, families

266 Emigrants, colonists, homeseekers

267 Special races

Colord persons, etc

268 Persons under commitment to public institutions

Prisoners, convicts, insane etc

269 Other

Divided like main clasification

27 For groups of persons

Convention rates, etc

28 Baggage rates

Excess baggage rates

29 Accessory fees Special charges

385.1323 **Express rates**
32 According to number and frequency of shipments
33 " " distance and destination
Divided like 385.13223
332 General and international rates
2 Export rates **3 Import rates**
34 According to time
Divided like 385.13224
35 According to speed and form of transport
352 According to speed
353 **Rates for slow transport**
Rates on delayd shipments
354 **Rates for rapid transport**
Rates on expedited shipments
355 Rates for special forms of transport
Rates for limited responsibility, rates for limitations on tonnage conditions, group rates, etc
36 For special classes of shippers or consignees
Reduced rates, rate exemptions. Divided like 385.13226
38 For special classes of goods
Express clasification
382 Clas rates
383 Commodity rates
384 Rates on special types of goods
Dangerous, perishable etc
388 Rates on special articles
Divided like main clasification
39 Accessory fees Special charges
391 Terminal charges
Charges for loading and unloading, collection and delivery, switching, carting, trucking, lightering, storage etc
392 Insurance and registration fees, etc
393 Rental and charges for private equipment
Private stations, branch lines, cars etc
394 Charges for special connections
Charges for special land and water connections; for connections with industrial railways, tap lines, etc
4 **Freight rates**
Divided like 385.1323
.133 Subsidies
See also 336.14 Land grants
.134 Tolls
.135 Taxation

385.2 **Servises**
For railway mail servis see 383
.22 Passenger
Clas here works covering passenger and express servis combined
.23 Express
.24 Freight
.242 Regular line servis
Freight lines run on regular routes and skedules
.243 Tramp or charterd servis
Without regular routes or skedules
.244 Privately operated industrial carriers
Operated by industrial or mercantil concerns primarily to carry their own freight, only occasionally carrying freight for other parties
.25 Combination servises
For combined passenger and express servis see 385.22
.252 Passenger and freight
.253 Freight and express
.3 **Stations and terminals**
For station bildings see 625.18 Road accessories, 725.3 Architecture; for teknical and business aspects see 656 Transport
.32 Small, country stations
.33 Large, city "
.34 Union and junction stations
.35 Thru terminals
.36 Loop "
.37 Stub "
.4 **Standard and hevy railways**
See also 625 Railway engineering
.5 **Light and industrial railways**
See also 625 Railway engineering
.6 **Specially constructed railways**
See also 625.3–.5 Railway engineering
.62 Inclined and mountain railways
.622 Funicular railways
.623 Rack railways
.624 Friction railways
.63 Elevated railways
.64 Subways
.65 Monorailways
.66 Cable roads

386 Waterways

See also 626 Canal engineering, 627 River and harbor engineering, 656 Transport, under useful arts

.09 In special countries
Divided like 930–999

.1 General questions
Divided like 385.1, uzing 386.125 for waterways vs railways

.2 Inland navigation

.209 In special countries
Divided like 930–999

.21 General questions
Divided like 385.1, uzing 386.2125 for inland navigation vs railways

.22 Ships
Divided like 623.82. For general works on ships sce 387.2, see also 623.8 Shipbilding

.24 Servises
Divided like 385.2

.3 River navigation

.309 In special countries
Divided like 930–999

.31 General questions
Divided like 385.1. uzing 386.3125 for river navigation vs railways

.34 Canalized rivers

.4 Canals

.41 General questions
Divided like 385.1, uzing 386.4125 for canals vs railways, canals vs transport of ships by rail

.42 Interoceanic canals
Clas here only canals connecting 1 ocean with another; canals connecting various parts of a given ocean ar clast as noninteroceanic canals 386.46–.49 (see notes under 386.46 and 386.4609)

.43 Suez canal

.44 American interoceanic canals

.441 General questions
.442 Atrato
.443 Darien
.444 Panama
.445 Nicaragua

Isthmian canals

.446 Honduras
.447 Tehuantepec
.448 Other South American routes
.449 " North " "

.46 Inland or noninteroceanic canals
Includes canals connecting various parts of a given ocean

.4609 In special countries
Divided like 930–999; individual canals may be clast here or by type under 386.4709 and 386.4809

.47 Ship canals
See notes under 386.46 and 386.4609; for interoceanic canals see 386.42–.44

.48 Barge and small boat canals
Canals for avoiding rapids, cataracts etc. See notes under 386.46 and 386.4609

.49 Other groupings

386.5 Lake navigation

.509 In special countries
Divided like 930–999

.51 General questions
Divided like 385.1, uzing 386.5125 for lake navigation vs railways

.6 Ferries

.609 In special countries
Divided like 930–999

.61 General questions
Divided like 385.1, uzing 386.6125 for ferries vs railways

.62 Ferries for foot passengers and small vehicles

.63 Freight ferries

.64 Train "

.8 Inland ports and harbors
For works on ocean ports and those covering both ocean and inland ports see 387.1. Divided like 387.1

.809 In special countries
Divided like 930–999

387 Ocean and air transport

History of shipping. See also 656 Transport

.1 Ocean ports
Clas here works covering both ocean and inland ports. See also 386.8 Inland ports, 627 Harbor engineering

.11 General questions
Divided like 385.1

.12 Ports according to location or type of harbor

.122 Natural bay ports

.123 River mouth, estuary, tidal river ports

.124 Combination river and natural bay ports

.125 Roadsted, breakwater ports

.13 Entrepôt vs transit ports

.132 Entrepôt ports Reexport ports

.133 Free ports Free zones Foren trade zones

.134 Transit ports

.14 Overside vs quay ports

.142 Overside ports

.143 Quay ports

.2 Ships
See also 623.8 Shipbilding. Divided like 623.82

387.5 **Maritim transport**
Merchant marine, maritim lines; organization and servises. For teknical and business aspects see 656 Transport

.51 General questions
Divided like 385.1, uzing 387.5125 for ocean transport vs railways

.52 Trade routes
International trade routes

.522 Main trunk lines

1 **North Atlantic route**
Connects Canada and northeast United States with English Channel and north and west Europe

2 **Mediterranean and Suez route**
Connects North America and west and south Europe with north and east Africa, Orient and Australasia. See also 386.43 Suez canal

3 **South African route**
Connects North America and Europe with west, south and southeast Africa, Orient and Australasia

4 **South American circuit**
Connects east and west shores of north Atlantic with eastern South America and Pacific coast of North and South America, also with Orient and Australasia

5 **Gulf of Mexico and Caribbean Sea route**
Southern extension of North Atlantic trunk route, connecting with southeast United States, West Indies, Mexico and northeastern South America

6 **Panama route**
Mainly extension of Caribbean route, connecting Atlantic and Pacific coast countries. See also 386.444 Panama canal

7 **North Pacific route**
Connects North America with Asia

8 **North American and Australasian route**
Connects western North America with New Zealand and Australia

9 **Other trunk lines**

.523 Triangular and auxiliary routes
Irregular and tramp routes, branches and connections between main trunk lines

.524 Coastwize trade Cabotage
Trade between ports of a given nation

.54 Servises
For ocean mail servis see 383. Divided like 385.2

.7 **Air transport**
See also 629.13 Aeronautics

388 Local transit: city and interurban Highways
See also engineering 625

.1 **Highways Roads Bridges**

.3 **Land transportation** Vehicles
Carriages, coaches, carts etc. Stages (horse or motor)

.4 **Street railways Quick transport in large towns**
For teknical questions see 625.6

389 Weights and mesures Metrology

.1 **Metric sistem**

.6 **Standardization**

390 Customs Costumes Folklore

These heds ar for discussions by topic. Customs, etc. of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more Important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

.1 Costumes of men
.2 " " women
.3 " " children
.4 Extremities Accessories
Hats, gloves, stockings, shoes, sandals; mufs, fans, canes, parasols; etc.
.5 Hairdressing Barbers See also 646.7 Toilet
.6 Care of person Bathing Toilet
.7 Ornaments and jewelry

392 Birth, home, and sex customs

.1 Birth customs: christening, circumcision
.2 Sacrifice and exposure See also ethics, 173.4 Infanticide
.3 Family and home relations
.4 Betrothal
.5 Marriage Weddings
.6 Sex relations Concubinage

393 Treatment of the ded

See also 614.6 Public helth

.1 Earth burial See also 718 Cemeteries
.2 Cremation
.3 Embalming, mummies
.4 Exposure
.9 Special funeral customs: wake, suttee

394 Public and social customs

.1 Eating, banquets
.2 Shows and diversions
.25 Carnivals
.26 Holidays
Including days which, tho not legal holidays, ar similarly observd. While separate days *may* be clast under 394.262, .264 and .269, it is recommended that these numbers be used only for general works and that separate days be kept in a single group under 394.268. See also under folklore 398.33 Fêtes: education 371.365 Special days
.262 By season
2 Spring 3 Summer 4 Autumn 5 Winter
.264 By kind
2 Religious 5 Scientific 8 Literary
3 Economic Social 7 Art 9 Patriotic
.268 Special days Alfabeted by name of day
.269 By country Divided like 930-999

394.3 Games Dances, etc.
.4 Official ceremonies Ceremonious observances
.43 Enthronement of soverens
Consecration, coronation, taking oath
.44 Joyful entries Receptions
Durbars, levees, etc.
.45 Triumts
.5 Processions Pageants
.6 Fairs Kermess
.7 Chivalry Tournaments Justs
.8 Dueling Suicide
For other relations see Dueling in Relativ index following Tables

395 Etiquet

Codes of social procedure and behavior. For social ethics see 177

396 Woman's position and treatment

For costumes, see 391.2; biografy, 920.7
If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396

.1 Emancipation
.2 Legal status, property, rights, etc.
.3 Political status
See 324.3, Suffrage; 329.83, Woman suffrage party
.4 Education
See also 376, Education of women
.5 Employment
See 331.4 Labor of women; 371.18 Teachers; 023.56 Librarians; 069.6318 Museum employees
Divided like the general classification; e. g. woman as scientist, 396.55; woman as exchange, 396.56; woman as painter, 396.575; woman as author, 396.58, etc.
.6 Woman in home
.7 Delineation of woman in art
.8 Delineation of woman in literature
.9 Woman in history, politics, war Amazons

397 Gipsies Nomads

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which til recently had no place in the linguistic groups of 400, as the Gipsy people hav no place in the geografic divisions of history

398 Folklore Proverbs, etc.

See also 291-3 Mythology

This section is for material needed in studying Folklore. Mere stories foi children, unless having a value to students of folklore, go in 813, 823, etc. oi in J, if there is a Juvenil collection

.1 **Primitiv traditions**

.2 **Legends, tales, traditions**

.21 Tales

.22 Legends Sagas

Legends of Arthur, Charlemagne, Roland, Faust, Reynard the fox, etc. But poems, dramas, etc. based on these legends clas in literature

.3 **Folklore, traditional beliefs and customs, popular superstitions**

.31 Fire

.32 Haunted localities

Cemeteries, burnd cities, ancient ruins, haunted houses, caves, water sources, forests etc.

.33 Fêtes

See also 394.26 Holidays

.331 **The year Calendar dates**

.332 **Principal fêtes**

1 Spring

11 April 1 All fools day

12 Easter Easter eggs

2 Summer

3 Autumn

4 Winter

41 Christmas

42 New Year

43 Lent

.34 Local customs

House, outbildings, furniture etc

.4 **Fairies, elvs, ogers, monsters**

Bogies, gnomes, dragons, vampires, werewolvs, etc.

.5 **Chapbooks**

.6 **Riddles**

.7 **Dream books**

.8 **Song books Nursery rimes Popular cries**

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 **Proverbs**

399 Customs of war

Wepons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

Philology

400 Philology in general

In philology the general works put under 400-419 deal almost entirely with Indo-European languages. They ar put here because they cover most of the divisions of this clas, and in practis ar most convenient here. Under 439, 479 and 489 ar placed books limited to Teutonic, Romance or Hellenic groups, and under 491 ar placed only such general works as ar specificly limited to Indo-European group

401 Philosofy Origin of language

402 Compends, outlines

403 Dictionaries, cyclopedias

404 Essays, lectures, addresses

405 Periodicals

406 Societies, transactions, etc.

407 Teaching and study of languages in general, also of philology

Works on teaching and study of an individual language ar clast with that language

408 Polygrafy Collections Different kinds of language

.7 **Dialects and patois of languages in general Dialectology**

Dialects of a special language ar clast under number for that language

.9 **Universal language International Artificial**

.91 Volapük

.92 Esperanto

409 History of language Distribution

Divided like 930-999

410 Comparativ

410-419 includes *comparativ* works in *general* and also *comparativ* works on Indo-European group in general, but general *and comparativ* works on Teutonic group ar 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language. 410-416, 418 may be divided like 420-426, 428

411 Orthografy Orthoepy Alfabets

412 Etymology, derivation

413 Lexicografy Lexicology Polyglot dictionaries

414 Phonology Visible speech Natural laws of language

See also 612.78 Physiology of speech

415 Grammar, morfology, syntax

416 Prosody

417 Inscriptions Paleografy

See also 421.7, 471.7, 481.7, etc. Rare early mss ar put in 091

418 Texts

419 Language communicated otherwise than by words or letters of an alfabet

.1 **Sign language**

For def mute alfabets, see 371.912

.2 **Picture language**

.25 , Hieroglyfics

See also 493.1

420 English philology

.1 Philosofy .2 Compends .4 Essays .5 Periodicals .0 Societies .7 Study and teaching .8 Collectiv works .9 History of the language

421 Orthografy

See also this hed treated in general grammars placed under 425

.1 **Alfabet**

For def mute alfabets, see 371.912

.2 **Vowels Difthongs Aspirates**

.3 **Consonants**

.4 **Phonetic spelling Simpler spelling**

Spelling reform

.5 **Orthoepy**

.6 **Accent**

.7 **Paleografy Inscriptions**

.8 **Abbreviations**

For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 **Punctuation**

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425

.1 **Origin and laws of English language**

.2 **Prefixes Suffixes**

.3 **Reduplication**

.4 **Foren elements**

.5 **Noun forms: case, number, diminutivs**

.6 **Adjectival forms Degrees of comparison**

.7 **Pronominal forms: personal, possessiv, relativ, etc.**

.8 **Verbal forms: moods, tense, voice, etc.**

.9 **Particles: adverbs, prepositions, etc.**

423 Lexicology Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tungs is more convenient. References in either case show what may be found in the other place

424 Synonyms Homonyms

425 Grammar

425 includes general works, covering also orthografy and prosody

.1 **Morfology Inflection**

Divided like 425.2 Syntax; e. g. .15 Nouns, etc. See 422

.2 **Syntax**

.3 **Arrangement of words and clauses**

.4 **Particular sentences: conditional, hypothetic, etc.**

.5 **Nouns**

.6 **Adjectivs Articles**

.7 **Pronouns**

.8 **Verbs**

.9 **Particles**

426 Prosody

See also the hed Prosody, in general grammars 425

.1 **Quantity and accent**

.2 **Versification**

.3 **Feet**

.4 **Figures of prosody**

.5 **Meters**

.6 **Rimes**

.7 **Strophe and antistrophe**

.8 **Textbooks for writing verse**

.9

427 Dialects Patois Language at different periods Slang

.1–.8 divided like 942.1–.8. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geografic subdivisions of their countries. Dialects not provided for in these heds ar placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0; the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English

428 School books Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see literature of the language, 820

.1 **Spelling books**

.2 **First lessons** **Elementary composition** For Rhetoric see 808.

Including in other languages books like Fasquelle, Ollendorff, Chardenal, Latin prose, etc. See also 372.6, Elementary grammars

.24 For foreners

Divided like 430–499 (for other than English, like 420–499). Clas here books intended for use of foreners in learning the language. Subdivide by language of those for whom intended; e. g. English lessons for Italians 428.245, for Russians 428.24917

.25 Special modifications of English

Basic English, etc.

.3 **Errors of speech** **Vulgarisms** **Use of words**

See 427.09 Slang; 424 Synonyms

.6 **Elementary readers** See also 372.4 Education

For primers and primary readers see 372.4. Clas here 3d and 4th readers, and put higher readers with literature collections; 808.8 if general, 820.8 if English or English and American, etc.

.7 **Selections**

.8 **Texts of individual authors**

With grammatic notes and questions. Preferably clast in 800 with cross references here

.9 **Examination papers**

429 Anglo-Saxon

Subdivisions .1–.8 correspond to 421–428

All languages are subdivided like 420 English

430 **German**

437.01 Old High German, to 1100 A.D.; 437.02 Middle High German, 1100–1500

439 Other Teutonic languages

Including general works on Teutonic group

.1 **Western Germanic languages in general**

.2 **Frisian** **Old Saxon**

.3 **Netherlandish**

.31 **Dutch**

.32 **Flemish**

.36 **Afrikaans**

.4 **Low German** **Plattdeutsch**

.5 **Scandinavian**

.6 **Old Norse** **Icelandic** **Faroese**

.7 **Swedish**

.8 **Danish** **Norwegian**

.81 **Danish**

.82 **Norwegian**

.9 **Gothic**

All languages are subdivided like 420 English

440 **French**

Old French, as the earliest form of the language, is 447.01

447.9 **Canadian and creole French, etc.**

449 Provençal

.9 **Catalan**

450 **Italian**

459 Rumanian

Moldavian, Wallachian, Dacorumanian, Istrorumanian, Transylvanian, Bukowinian, Macedorumanian

.9 **Romansh**

Ladin, Friulan, Rheto-Romanic

460 **Spanish**

469 Portuguese

.9 **Galician**

470 **Latin**

Works on Latin and Greek together, unless very clearly most useful in Latin, go with Greek, which here as well as elsewhere is made to include general works on the ancient classics

479 Other Italic Medieval and modern Latin

Including general works on Romance group

.1 Romance languages in general

Divided like 420

480 **Greek**

Divide 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Other Hellenic Modern Greek

Including general works on Hellenic group

.1 Classic languages in general

Divided like 420

490 **Other languages**

Each language subdivided if wisht like 420 English

491 Indo-European languages in general

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489
This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also notes under 400 and 410

.1 **Indic**

.2 **Old Indic Sanskrit**

.27 Sanskrit dialects Primary Prakrits

.3 **Middle Indic or Prakrit par excellence**

Popular Hindu idiom. Secondary Prakrits

.3701 Pali

Language of canonical books of Southern Buddhists

.4 **Modern East Indian languages**

Tertiary Prakrits
Excluding Dravidian, which is 494.8

.41 Sindi

.42 Panjabi

.43 Hindustani Hindi

Bradch, Blascha, Marivari, Dakhni, Gorkha

.44 Bengali

.45 Uriya Orissa

.46 Marathi

.47 Gujerati

.48 Singhalese Elu

.5 **Iranic**

.51 Old Persian West Iranic

Official language of Persian kings. Language of cuneiform inscriptions

.52 East Iranic Zend (Avestan) Old Bactrian

Language of the Avesta or sacred book of Zoroastrianism and the Parsees

.53 Pehlevi (Huzwaresh) Parsee

.531 Huzwaresh Pehlevi

.532 Parsee

.54 Armenian

.55 Modern Persian Neopersian

.56 Ossetic

.57 Kurdish

.58 Afghani Pushtu

.59 Other Iranic languages

.591 Baluchi

.592 Pamir languages

.6 **Keltic**

.61 Gadhelic group

.62 Irish

.63 Gaelic or Scotch Erse

.64 Manx

Language of Isle of Man

.65 Cymric group

.66 Welsh or Cymric

.67 Cornish

.68 Armorican or Bas Breton

.69 **Basque**

491.7 **Russian**
.79 Ruthenian
Little Russian, Russniak

.8 **Other Slavic or Slavonic languages**
Windic. Not including Russian, clast under 491.7, nor Ruthenian, clast under 491.79

Southeast Slavonic group

.81 Bulgarian (Church Slavonic)
.82 Serbo-Kroatian Serbian
.83 Kroatian
.84 Slovenian

West Slavonic group

.85 Polish
.86 Bohemian Bohemian Czech
.87 Moravian Slovakian
.871 Moravian
.872 Slovakian
.88 Sorbian or Sorabian Wendish or Lusatian
.89 Polabian
Slavonic of the Elbe

.9 **Lettic Baltic languages**
.91 Old Prussian
.92 Lithuanian
.93 Lettish

.99 **Other Indo-European languages**
.991 Albanian

492 Semitic

Northern group

.1 **Aramaic**
.19 Assyrian Babylonian
Babylon and Nineveh cuneiform

.2 **Chaldee**

.3 **Syriac (Peshito)**

Central group

.4 **Hebrew**
Canaanitish dialects

.49 **Yiddish**

.5 **Samaritan**
Language of the Pentateuch

.6 **Phenician Punic Carthaginian**

Southern group

.7 **Arabic**

.8 **Ethiopic**
Ethiopian Semitic languages; literary Ethiopian; Ghez; Abyssinian dialects; Amharic (language of the Abyssinian court since 1300 A.D.); Tigrus Harari
See also 493.5 Hamitic Ethiopian languages

.9 **Himyaritic or Sabean**
Ancient language of Yemen and eastern Arabia: Minaeen, Sabean, Hadramaut, Ehkili

493 Hamitic

.1 **Old Egyptian**
See 419.25 Hieroglyfics

.2 **Coptic**

.3 **Libyan or Berber group**
Algerian Kabyle, Mozabi, Moorish, Touarik or Touareg

.5 **Hamitic Ethiopian languages**
Hamitio group of languages of central Africa, spoken in south of Egypt and in certain parts of Abyssinia
See also 492.8 Ethiopian Semitic languages

.51 Somali
.52 Galla
.53 Bedja
Language of Bedouins
.54 Saho
.55 Dankali
.56 Agaou

494 Scythian Ural-Altaic Turanian

Except Malay-Polynesian languages clast under 499

.1 **Tungusic languages**
.11 Tungus proper
.12 Lamut
.13 Manchu

.2 **Mongol languages**
.21 Eastern Mongol
.22 Kalmuk
.23 Buriat

.3 **Turkish or Tatar languages**
.31 Yakut
.32 Uigurian
.321 Uigurian proper
.322 Djagataic
.323 Turkoman
.33 Nogair
.34 Kirghiz
.35 Osmanli or Turkish proper

.4 **Samoyed languages**
.41 Northern branch
.411 Yurak
.412 Targhi
.413 Yeniseian Samoyed
.42 Eastern branch
.421 Samoyed-ostiak
.422 Kamassin

494.5 **Ugrian, Finno-Hungarian, Finno-Ugric, or Uralic languages**
.51 Ugric languages
.511 Magyar Hungarian
.512 Vogul
.513 Hongro-ostiak
.52 Finnish of the Volga
.521 Cheremissian
.522 Mordvinian
.53 Permian languages Finno-Permian
.531 Permian
.532 Syryenian
.533 Votiak
.54 Western Finnish
.541 Suomi Finnish
.542 Karélian
.543 Chudic
.544 Krévin
.545 Esthonian
.546 Livonian
.55 Lapp
.8 **Dravidian languages**
Tamul, Tamil or Malabares languages
.81 1st group
.811 Tamul or Tamil
.812 Malayalam
.813 Telinga or Telugu Andhra
.814 Kanarese or Kannada
.815 Tulu or Tuluva
.816 Kodagu
.82 2d group
.821 Kôta
.822 Touda or Toda
.823 Gônd
.824 Khond or Kou
.825 Râdjmahal
.826 Orâon

495 Asiatic
Excluding those provided for above
.1 **Chinese**
.4 **Tibetan**
.5 **Himalayan**
.6 **Japanese**
.7 **Korean**
.8 **Burmese**
.91 **Siamese**
.92 **Annamite**
.95 **Mundari family**
Language of the Kolarians

496 African
Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above
.1 **Language of Hottentots**
.2 " " **Bushmen**
.3 " " **Bantu group**
Kafir dialects
.4 **Negro dialects**
.5 **Nubiàn languages** **Language of Pouls**

497 North American

498 South American

499 Malay-Polynesian and other
.1 **Negrito and Papuan**
.11 Negrito
.12 Papuan
.2 **Malay**
.21 Tagala branch
.211 Philippine languages
.212 Formosan
.213 Language of Ladrones or Mariana ilands
.214 Malagasy
Madagascar
.22 Malay-Javanese branch
.221 Malay proper
.222 Javanese
.223 Bali
.224 Maduran
.225 Sundanese
Java
.226 Batak Sumatran
.227 Dyak
Borneo
.228 Makassar
Bugi, Alfourou
.5 **Isolated ilands**
.9 **Other languages**
.96 Caucasus
.961 Northern group
1 Lesghian group
2 Kistic or Chechenze group
3 Cherkesse or Circassian group
.962 Southern group
1 Georgian
2 Svanetian
3 Mingrelian
4 Lazistan

Pure Science

500 Science in general

501–509 all hav *Science in general* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. 0 in any clas number in any part of the classification shows the subject to be general, not specific

501 Philosofy, theories, utilities, etc.
502 Compends, outlines
For ancient and medieval science prefer 509.01–02
503 Dictionaries, cyclopedias
504 Essays, lectures, addresses
505 Periodicals, scientific magazines
506 Societies: transactions, etc.
507 Education, methods of teaching and study Museums
508 Polygrafy: collected works, extracts, etc.
.1 Extracts .2 .3 General scientific travels .4—.9 Travels and surveys (if general) divided geograficly like 940–999
509 History of science
For subdivisions see Table 2 following Relativ index

510 Mathematics

Works on *Mathematics in general*, not limited to any one or two sections, are groupt by form of treatment like Science in general above; i. e.
510.1 Philosofy .2 Collections, compends .3 Dictionaries .4 Essays, papers, tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables .9 History

511 Arithmetic
See 372.7 Teaching elementary arithmetic
.1 **Systems of arithmetic**
See also 512.81 Theory of numbers
.2 **Notation and numeration** **Fundamental rules** **Abacus**
.3 **Prime numbers**
.4 **Fractions**
.5 **Analysis** **Permutation and combination**
.6 **Proportion and progression**
.61 Magic squares
.7 **Involution and evolution**
.8 **Mercantil rules** **Interest** **Alligation** **Mensuration** Gaging
.9 **Problems and tables**

512 Algebra
.1 **Systems of algebra**
.2 **Numeric equations** **Imaginary expressions**
.21 Equations, 1st to 4th degrees
.22 Higher numeric equations
.23 Indeterminate equations Diophantin analysis
.24 Imaginary expressions
.3 **Algebraic equations** **Maxima and minima**
.4 **Series** **Fractions** **Binomial theorem** **Taylor's theorem**
.5 **Combinatory analysis**
.6 **Proportion and progression**
.7 **Involution and evolution**
.8 **Higher algebra**
.81 Theory of numbers See 511.1 Systems of arithmetic
.82 Theory of equations Complex variable See also 517.8
.83 Determinants
.84 Symmetric functions
.85 Elimination: eliminants and discriminants
.86 Transformations Substitutions
.87 Quantics
.88 Invariants Covariants Contravariants
.89 Universal algebra
.9 **Problems and tables**

513 Geometry
Plane and solid geometry bound together ar 513. Descriptiv geometry is 515
See also 744 Mathematic drawing
.1 **Plane geometry**
.11 Right lines
.12 Intersecting lines
.13 Parallel lines
.14 Triangles
.15 Quadrilaterals
.16 Other polygons
.17 Similarity
.18 Areas
.19 Maxima and minima
.2 **Curvs**
.21 Circles
.22 Conic sections
.23 Ellipse
.24 Hyperbola
.25 Parabola
.26 Higher plane curvs

513.3 Volumetric or solid geometry
- .31 Lines and planes
- .32 Intersecting planes
- .33 Parallel planes
- .34 Polyedrons
- .35 Pyramids
- .36 Prisms
- .37 Regular

.4 With curvd surfaces
- .41 Sphere
- .42 Cone
- 43 Cylinder

.5 Modern geometry
- .51 Points Lines Planes Duality
- .52 Transversals
- .53 Cones Conics Involution
- .54 Radical axes and centers of similitude
- .55 Poles and polars Reciprocal polars
- .56 Harmonic and anharmonic properties
- .57 Correspondence Correlation of figures
- .58 Quadric surfaces: spheroconics, curvs of double curvature
- .59 Surfaces of higher order: cubics

.6

.7 Infinitesimal and kinematic geometry

.8 Non-Euclidean geometries Analysis situs
- .81 Absolute or non-Euclidean geometry
- .82 N-dimensional geometry
- .83 Analysis situs Geometric topology

.9 Problems

514 Trigonometry

.1 Trigonometric functions General formulas See 522.7

.2 Trigonometric series

.3 Exponential formulas

.4 Solution of trigonometric equations

.5 Plane trigonometry: solution of plane triangles; analytic

.6 Spheric trigonometry General formulas
- .7 Solution of spheric triangles

.8 Differences of triangles, plane and spheric

.9 Problems

515 Descriptiv geometry and projections

See also 744 Mathematic drawing

.1 Orthogonal projection on 2 planes
- .11 Straight lines Planes
- .12 Single curvd lines
- .13 Double curvd lines
- .14 Single curvd surfaces
- .15 Double curvd surfaces
- .16 Surfaces of revolution
- .17 Warpt surfaces
- .18 Intersections of surfaces

.2 Isometric and analogous projections

.3 Oblique projection

.4 Conic projection

.5 Spheric projection See 526.8 Map projection
- .51 Orthografic
- .52 Globular
- .53 Stereografic
- .54 Polar
- .55 Gnomonic
- .56 Conic
- .57 Cylindric

.6 Perspectiv See also 742 Drawing
- .61 Plane Parallel Oblique Angular
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- .63 Shadows; natural and artificial light
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- .81 Stonecutting See also 693.12 Masonry; 730 Sculpture
- .82 Carpentry See also 694 Bilding
- .83 Stairbilding See also 694.8 Bilding: 729.39 Architectural design

516 Analytic geometry

CARTESIAN

- .1 **Plane loci**
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  - .14 Transformation of coordinates
- .2 **Curvs**
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  - .22 Conic sections
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  - .59 Surfaces of higher order: cubics
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- .8 **Quaternions: calculus of direction and position**
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517 Calculus

- .1 **Infinitesimal Method of exhaustions**
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- .2 **Differential**
  - .21 Series
  - .22 Indeterminate forms
  - .23 Change of the independent variable
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  - .37
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  - .39 Problems and tables
- .4 **Of variations**
- .5 **Of functions**
- .6 **Of finite differences**
- .7 **Of operations**
- .8 **Of imaginaries Complex variables** See also 512.82
- .9 **Problems**

519 Probabilities

- .1 **General principles Direct and inverse probabilities**
- .2 **Mathematic and moral expectation**
- .3 **Testimony: decisions of juries and tribunals**
- .4 **Probability of future events deduced from experience**
- .5 **Life contingencies: annuities, life insurance** See 368.3
- .6 **Errors of observation Mean or average values**
- .7
- .8 **Method of least squares**
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521 Theoretic astronomy

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- .12 Law of universal gravitation and motion
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- .13 Problem of 3 bodies
- .14 Figures of hevenly bodies
- .15 Rotation of hevenly bodies

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- .21 Plane of orbit in space
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- .31 Definitions of orbits
- .32 Determination from 3 observations
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- .34 Variation of elements of orbit
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- .36 Application of method of least squares
- .37 Kepler's problem
- .38 Equation of center and radius vector
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.4 Perturbations
- .41 Mutual action of planets
- .42 Action of satellites
- .43 Nonsphericity of planets
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.7 Theory of comets

.8 Theory of eclipses

.9 Precession and nutation See also 522.95–.96

522 Practical and spheric

.1 Observatories
- .11 General plan, location
- .12 Material and mechanism of dome, drum, etc.
- .13 Transit bildings, wings, etc.
- .14 High altitude observatories
- .15 Portable
- .19 History, reports and serial publications of observatories

.2 Telescopes See also 535.83 Optics
- .21 Reflecting
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- .23 Eye piece and accessories
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- .25 Mounting, tube, etc.
- .26 Equatorial mounting
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- .28 Observing chairs, etc.
- .29 Famous telescopes
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.3 Meridional instruments
- .31 Finding meridian line
- .32 Mural circles
- .33 Meridian circles
- .34 Transit: placing in position
  - .35 Collimation constant
  - .36 Level constant
  - .37 Azimuth constant
  - .38 Other constants, flexure, index error, etc.

.4 Extra meridional instruments
- .41 Sextant and quadrant, reflecting circle, astrolabe
- .42 Altazimuth
- .43 Zenith telescope
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.5 Auxiliary instruments
- .51 Sidereal clock and chronometer
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- .54 Personal equation machine See also 522.97 Corrections
- .55 For illumination
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522.6 **Auxiliary observations**

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.62 Photometry See 535.2 Optics

.63 Photografy See 535.85 Optics; 770 Photografy

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.65 Polarization See 535.5 Optics

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.67 Spectroscopy See also 535.84
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.7 **Spheric astronomy** See also 514.6

.71 Celestial sphere Spheric coordinates

.72 Rectangular coordinates

.73 Transformation of coordinates

.74 Differential variations of coordinates

.75 Interpolation

.76 Meridian line Variation of compass

.77 Reduction of observations to the meridian

.78 Use of globes

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.9 **Corrections**

.91 Parallax

.92 Refraction See 535.3 Optics

.93 Semidiameter of celestial bodies

.94 Aberration

.95 Precession See 521.9

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.97 Personal equation See 522.54

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523 Descriptiv astronomy

.1 **Universe**

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.12 Nebular hypothesis

.13 Plurality of worlds

.14 Space and its temperature

.15 Resisting medium

.16 Cosmic dust

.17 Repulsiv force

523.2 **Solar system**

.21 Distributiv laws of planets

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.23 Conjunctions and oppositions

.24 Motion of solar system in space

.25 Constitution of planetary system

.26 Stability of solar system Ecliptic

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.28 Orrery, planetarium, gyroscope, etc.
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.29 Zodiac

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.31 Constants: size, mass Distance and parallax

.32 Heat and light Phases

.33 Orbit and motions
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.34 Features of surface: mountains, plains, etc.

.35 Atmosphere

.36 Physical condition

.37 Spectrum

.38 Eclipses

.39 Charts, photografs, etc.

.4 **Planets**

.41 Mercury and intramercurial

.42 Venus

.43 Mars

.44 Asteroids

.45 Jupiter

.46 Saturn

.47 Uranus

.48 Neptune and transneptunian

.49 Charts, photografs, etc.

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.51 Meteorites

.52 Fireballs

.53 Meteoric showers, radiant points, etc.

.54 Systems of meteors

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  - .93 Delisle's method
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  - .96 Transits of Venus to 1874
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524 Maps, observations, and tables

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525 Earth

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- .12 Density
- .13 Dimensions, diameter
- .14 Figure: geomorfy, equatorial belt
- .15 Distance from sun
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- .32 Obliquity of ecliptic to equator
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- .36 Foucault's pendulum
- .37 Deviation of falling bodies and projectils
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- .46 Finding longitude See also 527.2
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.5 Seasons
- .51 Effect of inclination of equator to ecliptic
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- .62 Effect of sun and moon in producing tides
- .63 Distribution, diurnal inequality, spring and neap, priming and lagging
- .64 Establishment of a port Coast form modification
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- .67 Supposed effect in retarding Earth's revolution
- .68 Tide registering and predicting machines
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526 Geodesy

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- .11 Potentials of ellipsoids
- .12 Equilibrium of rotating spheroid
- .13 Law of ellipticity
- .14 Airy's and Pratt's theories as to attraction of mountains
- .15 Determination of figure by Airy, by Bessel, and by Clarke
- .16 Ellipsoidal figure and position of axes
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.2 Base mesuring and apparatus
- .21 Standards of length and temperature
- .22 Apparatus of Struve, Bessel, Colby, U. S. coast survey, U. S. lake survey, etc.
- .23 Adjustments of apparatus
- .24 Location of base line
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.3 Field work of triangulation
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- .32 Stations
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- .33 Observations, instruments and records
- .34 Reduction to station's center
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- .38 Trigonometric leveling
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These are methods. See 551.53, for results, lists of hights, etc.

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- .41 Spheric excess
- .42 Legendre's theorem
- .43 Chord process
- .44 By spheric trigonometry
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- .47 Direct deduction by Bessel
- .48 Deduction by Puissant
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- .51 Method of independent angles
- .52 Adjustment of a quadrilateral
- .53 Adjustment of triangulation net
- .54 Method of directions
- .55 Adjustment for closure of a circuit
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- .96 Plotting
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- .99 For special purposes: military, naval, railroad, mining, etc.

527 Navigation Nautic astronomy

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- .2 **Finding longitude at sea** See also 525.46
- .3 **Finding time at sea** See also 529.74
- .4 **Sumner's method**
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- .2 **English**
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529 Chronology

- .1 **Sidereal and solar day**
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- .2 **Eras, kinds of years, months, weeks, decades etc.**
- .3 **Kalendars in general;** including ancient and nonchristian
- .4 Christian kalendars
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  - .42 Kalendar of Julius Caesar
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- .7 **Horology**
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530 Physics

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531 Mechanics

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532 Liquids Hydrostatics Hydraulics

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.2 **Equilibrium of liquids**
.3 **Buoyant effects Floating bodies**
.4 **Specific gravity Hydrometer**
.5 **Liquids in motion Hydrodynamics**
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.52 Orifises, adjutages, fluid vein
.53 Weirs, overfalls
.54 Pipes, open channels, rivers
.55 Bends, valvs, sudden enlargements and contractions
.56 Efflux; variable pressure
.57 Hydrometry Velocity
.58 Impulse and resistance
.59 Theory of waves
.6 **Capillary attraction**
.7 **Osmose Absorption**
.8 **Applications Machines** See 621.2 Water engins
Except for libraries making Physics much more prominent than Useful arts, all the 'Applications' wil be more useful under their proper heds in Useful arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division
.81 Hydraulic press See also 621.266
.82 Hydraulic engin See also 621.25
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533 Gases Pneumatics

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.7 **Kinetic theory of gases**
.8 **Applications** See 621.6 Blowing and pumping engins
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534 Sound Acoustics

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.6 **Grafic representations**
.7 **Physiologic: ear and larynx**
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.8 **Applications** Preferably clast with topics elsewhere See 532.8, note
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535 Radiation Light Optics

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.7 **Thermodynamics Mechanical equivalent**
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.81 Steam engins See 621.1 Engineering
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537 Electricity

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615	Medical "	669	Metallurgy
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541 Theoretic chemistry Physical chemistry

Modern chemic theories General properties of bodies from chemic point of view Composition Constitution Elements and compounds Affinity Formulas Nomenclature

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.2 Atomic theory

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.
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.3 Physical chemistry

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.32 Liquid state
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.325 Special types of liquids: gelatinous liquids

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2 **Laws Terminology**

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.35 Photochemistry
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.36 Thermochemistry
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.37 Electrochemistry

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.38 Radiochemistry
Chemistry of radioactiv substances. See also 539.7 Radioactivity; 546.432 Radium

.39 Chemic dynamics, statics and equilibrium Affinity
Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc) Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics
Variation of affinity with physical conditions. Valence. Combinations. Unlimited and limited decomposition. Dissociation, efflorescence, limits of dissociation and maximum dissociation. Combustion

.4 Various types of compounds

Acids, bases, salts, alloys

.5 Molecular types

.6 Compound radicals

Stereochemistry Formulas of structure

.7 Allotropy

Isomerism Amorfous and crystallin states Tautomerism Polymerism
Clas here material on structure not included in 541.6

.9 Other general subjects

Classification Nomenclature Notation Formulas Stoichiometry Tables Periodic law

542 Practical and experimental chemistry

Manipulations Chemic operations For analyses see 543–545

.1 Laboratories

Interior construction and installation General arrangements For architecture see 727.5

.2 Apparatus and manipulations For special apparatus see 542.3–.9

.21 Manipulations Arrangements Procedure

.22 Preparation of substances

Mechanic separation: trituration, pulverization, porphyrization; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation

.23 Laboratory receptacles and their accessories

For uses of receptacles see also various processes and operations

.231 Glas and quartz

Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glas rods and tubing

5 Glas manipulation: blowing, grinding

.232 Porcelain

Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

.233 Metallic

Containers made of platinum, silver, iron, nickel, aluminum, etc.

.24 Supports Fixt, adjustable, wood. Triangles, tripods, clamps

.25 Stoppers Glas, cork, rubber Corkborers

.26 Rubber tubing Luting and cements

.29 Other appliances

.3 Mesuring apparatus

.32 Determination of weights and density

Balances and weights Descriptions and directions for use

.33 Specific gravity apparatus Clas preferably in 532.4

.35 Determination of volume

Mesuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders

.4 Heating Distillation

See also 536.5 Mesurement and regulation of heat; 542.53 Blowpiping

.41 General

.42 Heating with coal

Laboratory furnaces: trof, cupola, reverberatory, tubular, cupel, blast
Tube furnaces for organic analysis

.43 Heating with liquid fuels, etc. Lamps; special burners

.44 Heating with gas

Coal gas, carburetted air, acetylene, etc.
Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators

.46 Indirect heating

Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes

.47 Electric heating

Heaters, muffles and furnaces; kryptol furnaces
See also 542.8 Electric and galvanic manipulations

.48 Operations

Melting, fusing, boiling. Vaporization, distillation. Distilling apparatus, alembics or stills. Deflegmators. Vacuum operations
Evaporation with heat: sublimation, dessication. For evaporation in vacuum see 542.77

.49 Other heating operations

542.5 Flames Blowpipes

See also 544.2 Dry methods of analysis; 669.9 Assaying

.51 Flame

Nature of flame; candle flame; oxidizing and reducing flames

.52 Coloration of flame

Beads, colord beads Composit flames

.53 Blowpipes

Varieties of blowpipes and how to use them
For applications see Blowpiping in Relativ index following Tables

.6 Aqueous and liquid treatment

Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbondisulfid, hydrocarbons, etc.

.61 Dissolving Solution

Solvents, maceration, digestion, decoction, lixiviation

.62 Determination of solubility Supersaturation

Supersaturated solution

.63 Diffusion

Lowering the solidification point or surfusion

.64 Dialysis Dializers

See also qualitativ analysis 544.5 Dialysis

.65 Solidification

Precipitation, crystallization, crystallizers

.66 Decantation

Decantation funnels, Florentin receivers, syfons, pipets

.67 Filtration and filters

Filtration with textils, with paper, thru cotton, asbestos, powders, etc.
Hot filtration Filtration in seald vessels, by suction, by compression
Filter presses

.68 Expression and presses Drying of press residues; drying machines

.69 Washing Continuous, automatic; decantation, wash bottles

.7 Gas manipulation

See also 545.7 Eudiometry

.71 General

.72 Gas production

.73 Gas collecting and decanting

Pneumatic trof, gas sampling-tube, gas pipets; displacement and decanting

.74 Washing and dissolving gas

Wash bottles Apparatus for drying and absorbing gas

.75 Gas storage Gasometers, rubber bags

.76 Gas mesurement Graduated tubes, meters

.77 Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engins, bellows, suction gasometers; manometers; vacuum regulators; trompes
See also physics, 533.5 Air pumps

.78 Gas compression

Seald tubes and bulbs, bellows, compression pumps, gasholders

.79 Gas liquefaction and solidification

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

542.8 **Electric and galvanic manipulations**
See also physics, 537.85 Applications of electricity to chemistry. Clas here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 **Other operations**
Attacks by acids and gases; oxidations, reductions etc.

543-545 Analytic chemistry

543 Analysis

Divided by material analyzed, whether qualitativly or quantitativly; i.e. substance takes precedence of process. Clas in 543 general works covering both qualitativ and quantitativ analysis
See also 614.3 Adulterations

.1 **Analysis of food and drink**
See also 613.2 Hygiene, 612.39 Nutrition

.2 Dairy products Milk
See also agriculture, 637 Dairy products

.3 Water
See also hygiene 613.31 Water as a beverage; and therapeutics 615.79 Mineral waters

.4 **Analysis of drugs and medicins**
See also 614.35 Inspection of drugs; 615 Medicin

.5 Poisons
See also 615.9 Toxicology

.6 **Analysis of rocks and ores**
See also 549 Mineralogy, 669.9 Assaying, 631.41 Soil chemistry

.7 **Analysis of inorganic products in general**
For general works and special matter not provided for in previous subdivisions of 543

.8 **Analysis of organic products in general**
For general works and special matter not provided for in previous subdivisions of 543

.9 Analysis of organic products of animal origin
For general works and special matter not provided for in previous subdivisions of 543 See also 577.1 Biology

544 Qualitativ analysis

Determination of chemic elements of substances General processes and methods

.1 **Wet method**

.11 Reagents

.12 Determination of bases

.13 Determination of acids

.2 **Dry method**
See also 669.9 Assaying

.3 **Blowpiping**
For other relations see Relativ index

.4 **Gas analysis Reactions**
Identifying an isolated gas Analysis of gaseous mixtures See also 545.7 Eudiometry

.5 **Dialysis**
For technic see 542.64; for electric dialysis see 542.8

.6 **Spectrum analysis**
See also physics, 535.84 Spectrum analysis

.7 **Polariscopic analysis**
See also physics, 535.5 Polarization

.8 **Microscopic examinations**

.9 **Other methods**
Electroanalysis

.92 Capillary analysis

545 Quantitativ analysis

.1 **Gravimetric**
Analysis by weighing, sampletaking

.2 **Wet method**
Titration solution, alkalimetry, acidimetry

.3 **Electric methods**
See also physics, 537.85 Electrometallurgy
For galvanoplastics see 671

.311 Constant current analysis

.312 Constant voltage analysis

.36 Catalytic analysis

.4 **Dry method**
Quantitativ analyses with blowpipe, cupellation etc.
See also 669.9 Assaying

.5 **Titrometric methods in general**

.6 Volumetric analysis of liquids
See also 542.3 Mesuring apparatus

.7 Volumetric analysis of gases
Eudiometry and eudiometers; gas burets, absorption pipets
See also 544.4 Gas analysis

.8 **Other methods**
Colorimetric Polarimetric Refractometric

.9 Synthesis
General processes

.97 **Electric synthesis**

546-547 Inorganic and organic chemistry

546 Inorganic chemistry

.1 **Nonmetallic elements**
.11 Hydrogen
.12 **Halogen group**
.13 Chlorin
.14 Bromin
.15 Iodin
.16 Fluorin
.17 **Nitrogen group** **Nitrogen**
.18 Phosphorus
.19 Arsenic
.2 **Oxygen group**
.21 Oxygen
.22 Sulfur
.23 Selenium
.24 Tellurium
.25 **Carbon group**
.26 Carbon
.27 Boron
.28 Silicon
.29 **Helium group**
.291 Helium .296 Radon Niton
.292 Neon
.293 Argon
.294 Krypton
.295 Xenon
.3 **Metals**
.31 **Alkali group**
.32 Potassium
.33 Sodium
.34 Lithium
.35 Rubidium
.36 Caesium
.37
.38
.39
.4 **Alkalin earths**
Calcium and magnesium groups considerd together
.41 Calcium
.42 Strontium
.43 Barium
.432 Radium See also 539.7 Radioactivity; 541.38 Radiochemistry
.44 **Magnesium group**
.45 Beryllium or glucinum
.46 Magnesium
.47 Zinc
.48 Cadmium
.49

546.5 **Led and silver group**
.51 Led
.52 Thallium
.55 **Silver group**
.56 Copper
.57 Silver
.58 Mercury
.59
.6 **Cerium group** **Rare earths**
.61 Yttrium
.62 Cerium
.63 Lanthanum
.64 Didymium
.642 Praseodymium
.643 Neodymium
.65 Erbium
.652 Ytterbium
.653 Terbium
.66 Aluminum
.67 Indium
.68 Gallium
.69 **Other metals of rare earths**
.691 Scandium
.692 Samarium or decipium
.694 Gadolinium
.695 Germanium
.696 Europium
.697 Thulium
.7 **Iron group**
Iron and chromium groups considerd together
.71 Manganese
.72 Iron
.73 Cobalt
.74 Nickel
.75 **Chromium group**
.76 Chromium
.77 Molybdenum
.78 Tungsten or wolfram
.79 Uranium See also 541.38
.8 **Tin group**
Tin and vanadium groups considerd together
.81 Tin
.82 Titanium
.83 Zirconium .832 Hafnium
.841 Thorium See also 541.38
.842 Actinium See also 541.38
.85 **Vanadium group**
.851 Vanadium
.86 Antimony
.87 Bismuth
.88 Tantalum
.891 Niobium or columbium
.892 Polonium See also 541.38

546.9 **Platinum group**
.91 Gold
.92 Platinum
.93 Iridium
.94 Osmium
.95 **Ruthenium group**
.96 Ruthenium
.97 Rhodium
.98 Palladium
.99 **False and putativ elements**
Arrange alfabeticly

547 Organic chemistry

.1 **Cyanogen and its compounds**
.2 **Hydrocarbons Fatty series**
For occurrence as minerals see 549.8
.21 Paraffins
.22 Olefins
.23 Acetylenes
.24 Valylene Dipropargyl, etc.
.25 **Aromatic series**
.26 Benzenes
.27 Diphenyl group
.28 Naphthalene Anthracene Phenanthrene
.29 Higher series

Subdivided like 547.2:
.3 **Alcohols Phenols**
.4 **Ethers: simple, compound; haloid**
.5 **Aldehydes**
.6 **Ketones Quinones**
.7 **Acids: acid halids, acid anhydrids, sulfo-acids**
.8 **Nitroderivates: amins, compound ammoniums, amids, amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies, diazo-bodies**
.9 **Compounds with metals**

548 Crystallografy

General; phenomena of a special mineral belong with that mineral; e.g cleavage of borates 549.73

.1 **Systems of crystallization**
.2 **Twin crystals Crystallin aggregations**
.3 **Cleavage Isomorfism Polymorfism**
.4 **Irregularities Internal imperfections**
.5 **Formation and growth of crystals**
.6 **Pseudomorfs**
.7 **Mathematic: mesurement of angles**
.8 **Physical**
.9 **Optical**

549 Mineralogy

.01 Philosofy, classification .02 Compends .03 Dictionaries .04 Essays, papers, etc. .05 Periodicals .06 Societies .07 Study and teaching, museums .08 Collectiv works .09 History

.1 **Determinativ Blowpiping**
See also 543.6 Methods of analysis of rocks and ores
See 542.53 Blowpipes and their manipulation. For other relations see Blowpiping in Relativ index following Tables
.2 **Nativ elements**
.3 **Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids**
.4 **Compounds of chlorin, bromin, iodin, and fluorin**
.5 **Oxygen compounds: oxids**
.6 Silicates
.61 Anhydrous
.65 Hydrous
.7 Other ternary oxygen compounds
.71 Tantalates Columbates
.72 Phosphates Arsenates Vanadates Antimonates Nitrates
.73 Borates
.74 Tungstates Molybdates Chromates
.75 Anhydrous sulfates
.76 Hydrous sulfates
.77 Tellurates
.78 Carbonates
.79 Oxalates
.8 **Hydrocarbons**
Occurrence as minerals. For chemistry of hydrocarbons see 547.2; for economic geology see 553.2
.9 **Geografic distribution**
Divided like 940-999 For economic geology see 553.09

550 Geology

550.1 Philosofy, theories, geologic time .2 Compends .3 Dictionaries .4 Essays, papers, tracts, letters .5 Periodicals .6 Societies .7 Study and teaching, museums .8 Collectiv works .9 History

551 Physical and dynamic geology

Including geophysics (physiografy, physical geografy) and geochemistry broadly treated; see also 551.94. For Cosmic geografy, see 523

.1 Structure of earth as a whole
- .11 Interior of earth
  - .12 Internal heat
- .13 Earth's crust
- .14 Conductivity of rocks

.2 Seismology
- .21 Volcanoes
- .22 Earthquakes
- .23 Hot springs, geysers
- .24 Oscillations of the earth's crust

.3 Erosion and deposition
- .31 Glaciers and glacial phenomena
  - .32 Moraines
  - .33 Transported materials, till
- .34 Icebergs
- .35 Aqueous erosion
  - .36 Coast changes
- .37 Aerial erosion

.4 Surface features of the earth
- .41 Continents
- .42 Ilands
- .43 Mountains Valleys Orology
- .44 Caves
- .45 Plains
- .46 Oceans Submarine topografy
  - .47 Ocean currents
- .48 Rivers Lakes
- .49 Springs Wells Ground water

Division of Oceans for use under .46 and .47
1 Atlantic North sea Baltic
2 Mediterranean Black sea
3 Gulf of Mexico Caribbean
4 Southern Atlantic
5 Pacific
6 Eastern Pacific or American coast
7 Indian Bay of Bengal Red sea
8 Arctic
9 Antarctic

.5 Meteorology Climate
- .51 Atmosferic currents Winds
- .52 Thermometry, heat
  For other relations see Heat, Temperature, in Relativ index following Tables
- .53 Hypsometry, elevations See 526.36-8 for methods
- .54 Barometry, pressure
- .55 Storms
  See also 537.4 Atmosferic electricity
- .57 Moisture: rainfall, flow of streams, floods
- .58 Prairies, forests, and deserts

551.6 **Metamorfism**

.7 Stratigrafic geology
- .71 Archean
- .72 Primary, paleozoic, Cambrian
- .73 Silurian
  - .731 **Lower Silurian**
  - .732 **Upper Silurian**
- .74 Devonian Old red sandstone
- .75 Carboniferous
- .76 Secondary, mesozoic, triassic and Jurassic: lias, oolite
- .77 Cretaceous
- .78 Tertiary, cenozoic
- .781 Eocene, oligocene
- .782 Miocene
- .783 Pliocene
- .79 Quaternary Postpliocene Glacial
- .791 Recent

.8 Structural geology
- .81 Stratification
- .82 Curvature and contortion
- .83 Ripple marks and sun cracks
- .84 Joints Cleavage Polarity in rocks
- .85 Dip Outcrop Strike
- .86 Anticlinal Synclinal
- .87 Faults and folds Dislocations
- .88 Veins Dykes Necks Bosses
- .89

.9 Agents of geologic work
- .91 Frost
- .92 Water
- .93 Atmosphere
- .94 Geochemistry
  Chemic changes: heat. See also note to 551
- .95 Animals
  - .96 Coral reefs
- .97 Plants
- .98 Segregation and concretion
- .99 Other agents

552 Lithology Petrografy Petrology

.1 Igneous rocks
.2 Volcanic rocks
.21 Lavas Scoria
.22 Volcanic ashes Volcanic tufa Tuff
.23 Obsidian Pumis Pitchstone
.24 Trachyte
.25 Rhyolite
.26 Andesite Dacite Phonolite
.27 Felsites
.28 Basalt
.29 Other volcanic rocks
.3 Plutonic rocks
.31 Porphyry Porphyrite
.32 Syenite
.33 Granit
.34 Diabase and gabbro
.35 Dolerite
.36 Diorite
.37 Norite
.38 Peridotite
.39 Other Plutonic rocks
.4 Metamorfic rocks
.41 Granits and syenites
.42 Gneiss
.43 Schists
.44 Slates Argillite Phyllite
.45 Quartzite Novaculite Itacolumite
.46 Marble Crystallin limestone
.47 Serpentine
.48 Chrysolitic rocks
.49 Other metamorfic rocks
.5 Sedimentary rocks
.51 Sandstone Conglomerate Sand Gravel
.52 Shale Clay Silt
.53 Gypsum Salt
.54 Limestone Marl Ooze
.55 Dolomite
.56 Oolite
.57 Infusorial or diatomaceous earth
.58 Glauconite Greensand
.59 Other sedimentary rocks
.6 Meteorites
.7 Decay of rocks

552.8 Microscopic petrografy
.81 Determination of rock minerals
.82 Rock structure

553 Economic geology

See also 622 Mining engineering

.1 Ore deposits
.11 Formation and structure
.12 Classification
.13 Superficial: placers
.14 Stratified: beds, etc.
.15 Unstratified
.16 Disseminated thru eruptiv rocks
17 Stockwerks Fahlbands Contacts
.18 Chambers and pockets Impregnations
.19 Mineral veins
.2 Carbon series
.21 Peat
.22 Lignite and jet
.23 Cannel coal Bituminous shale
.24 Bituminous and semibituminous coals
.25 Anthracite and grafitic anthracite
.26 Grafite Plumbago
.27 Asfalt and asfaltic coals Ozocerite
.28 Petroleum Natural gas
.29 Fossil gums and resins
.3 Ores of iron
.4 Ores of metals other than iron
.41 Ores of gold
.42 Ores of silver
.43 Ores of copper
.44 Ores of led
.45 Ores of zinc and tin Mercury
.46 Ores of manganese and chromium
.47 Ores of antimony and arsenic
.48 Ores of nickel and cobalt
.49 Other metallic ores
.5 Bilding stones
.51 Marbles and limestones
.52 Granits and syenites
.53 Sandstones
.54 Slates
.55 Serpentines Soapstones
.56 Porphyries
.57 Trap
.58 Tufa Peperino
.59 Other bilding stones

While the history of all other products goes in 553, history of metals is more useful in 669, Metallurgy

553.6 **Earthy economic minerals**
.61 Fire clays Brick clays Potter's clays
.62 Sands
.63 Rock salt Gypsum
.64 Phosphates Apatite Guano See also 631.85
.65 Emery Corundum
.66 Hevy spar Sulfur
.67 Asbestos, etc.
.68 Limes and mineral cements
.69 Other earthy economic minerals
.7 **Mineral waters**

.71 Alkalin
.72 Salin
.73 Chalybeate, ironbearing
.74 Sulfuric
.75 Calcic
See also 551.23
.8 **Gems Ornamental stones**
.9 **Other economic minerals**

554 Geology of Europe 554-559 subdivided by countries like 940-999
555 Geology of Asia
556 Geology of Africa
557 Geology of North America
558 Geology of South America
559 Geology of Oceania Polar regions

560 Paleontology

Use form divisions as in 550 and divide 9 geograficly like 930–999; e. g. Paleontology of England .. 560.942 See also last paragraf of notes under 58[illegible]

561 Plants 561 is subdivided like Botany, 580
562 Invertebrates 562–569 is subdivided like Zoology, 592–599
563 Protozoa Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes Batrachia
568 Reptils Birds
569 Mammals

570 Biology Archeology

570.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, museums .8 Collectiv works .9 History

571 Prehistoric archeology
For Customs, see 390 For Archeology of special countries, see 913

.1 **Paleolithic, or early stone age**
.11 Drift remains
.12 Cave men
.13 Remains of animals Shells
.14 Chipt stones
.15 Flint flakes Arrow heds Knives, etc.
.16 Other stone remains
.19 Other remains
.2 **Neolithic, or late stone age**
.21 Stone quarries
.22
.23 Remains of animals
.24 Polisht stones
.25 Sharpend stones: celts, tools, wepons
.26 Perforated stones: spindles, net sinkers, pipes
.27 Hollowd stones: mortars, cups, food vessels
.28 Other stone remains
.29 Other remains
.3 **Bronze age**
.31 Ancient copper and tin mining
.34 Bronze remains
.35 Tools Wepons, etc.
.37 Cups Vessels
.39 Other remains
.4 **Iron age**
.5 **Other remains**
.51 Implements of wood
.52 Implements of bone
.53 Basket work
.54 Textil fabrics
.55 Pottery
.56 Glas
.6 **Prehistoric industries**
.7 **Rudiments of art Ornaments**
.71 Drawings
.72 Paint
.73 Sculptures
.74 Beads

571.8 **Dwellings**
.81 Natural caves
.82 Earth houses Pit dwellings Weems
.83 Lake dwellings Crannoges
.84 Cliff dwellings
.85 Pueblos
.86 Tents as dwellings
.9 **Mounds and monuments**
.91 Mounds and mound bilders
.92 Grave mounds
.93 Kitchen middens Shell banks
.94 Monoliths Cromlechs
.95 Circles Labyrinths
.96 Cairns
.97
.98
.99

572 Ethnology Anthropology

See also 136.4 Mental race caracteristics

.1 **Unity of human race**
.2 **Diversity of races**
.3 **Migrations of men**
.4 **Original home of man: Eden, Atlantis, etc.**
.5
.6
.7 **Savages: races divided by practises**
Clas description of savages of special country in 914-919; e. g. Australian bushmen 919.4
.8 **Races divided by language like 400**
.9 **Races divided by countries like 930-999**
Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural history of man Somatology

.1 **Man's place in nature**
.2 **Origin of man**
.3 **Antiquity of man**
.4 **Influence of climate and surroundings**
.5 **Color in man**
.6 **Anthropometry**
.7 **Craniology**
.8 **Dwarfs and giants**
.9 **Monstrosities**
See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities

574 Physiologic and structural biology Natural history

Subdivided where wisht like 581 and 591; but clas phylogeny on 575, variation on 575.2, ecology on 575.3, abiogenesis on 576.1, cytology on 576.3

575 Evolution Phylogeny

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

.01 Theory
.016 Miscellaneous theories
2 Darwinism
3 Orthogenesis Determinate evolution
4 Weismannism
5 Mutation theory
6 Lamarckism
.07 Study and teaching
.072 Experiment and reserch
5 Methods
52 Conserving method
53 Agricultural "
54 Horticultural method
56 Zooteknic "
.1 **Heredity Eugenics**
See also 613.9 Hygiene of offspring, stirpiculture. For other relations see Heredity in Relativ index following Tables
.11 General questions and laws
.112 Blending inheritance
2 **Galton's law**
.113 Alternativ inheritance
2 **Mendel's law**
.114 Mosaic inheritance
.12 Inheritance of caracters
.122 Normal hereditary units Genotypes
.123 Inheritance of acquired caracters
Permanence of acquired caracters
.124 Inheritance of sports
.125 " " fluctuating variations Phenotypes
.126 Heredity of special caracters
2 **Factors of caracters** 4 **Polymorfic caracters**
3 **Sexual caracters**

575.13 Breeding Heredity
.131 Theoretic and general questions
2 **Effects of external influences**
3 " " **internal** "
.132 Outbreeding Mongrelization
See also 575.282 Hybridization
.133 In-and-in breeding Self fertilization
Effects of consanguinity, incest
.134 Sterility
.135 Xenia
.136 Telegony
.137 Atavism
.138 Cytology of heredity and breeding
.139 Other topics
.15 Mekanic fenomena
.16 Chemic "
.17 Morfologic "
.2 Variation
Divided like 581.15, but clas selection on 575.4–.5
.3 Ecology Environment Bionomics
Divided like 581.5. See also 136.2 Mental characteristics: 573.4 Natural history of man
.4 Adaptation Adjustment
.42 Factors of adjustment
.422 Self adaptation
.423 Natural selection Survival of the fittest
.424 Artificial "
.43 Special results
.432 Cros fertilization
.433 Resistance to unfavorable environment
.5 Sexual selection
.6 Development
.7 Degeneration Regeneration Extinction
.8 Origin of species
.9 " " sexes
See also 574.36 Production and differentiation of sexes

576 Origin and beginnings of life

.1 Abiogenesis Spontaneous generation
.2 Protoplasm Bioplasm
.3 Cels Cytology
Divided like 581.87
.4 Beginnings of motion and sensation
.5 Associations of cels and unicellular organisms Cel colonies

577 Properties of living matter

.1 Chemic: difference between organic and inorganic
See also 574.19 Biochemistry
.2 Life: difference between ded and living matter
See also 612.013 Physiology
.21 Theoretic and general questions
Nature of life
.212 Mekanism
.213 Vitalism
.214 Physico-biologic conception of life
Structure necessary to life
.22 Living and ded matter
.23 Molecular life
Life considerd as sinthesis of molecular energies
.24 Relations between life and deth
.3 Difference between vital and physical fenomena
.4 Conditions of life: moisture, temperature
See also 575.3 Ecology
.5 Difference between plants and animals
.6 Vital force
.7 Deth
See also 612.013
.72 Definitions Conditions Causes
.73 Longevity and mortality of living organisms
.74 Fenomena of decomposition among living organisms
Autolysis, putrefaction
.75 Types of deth
.76 Signs " "
.8 Sex in nature
See also 575.9 Origin of sexes
.81 Theoretic and general questions
Nature of sex
.82 Sexes
.822 Male
.823 Female
.824 Hermaphrodite
.825 Neuter
.84 Factors effecting sex
Sex inversion
.841 External factors
.842 Internal "
.85 Physiologic fenomena
.86 Morfologic "
.88 Determination of sex
.9 Other topics

578 Microscopy See also 535.82 Optics
.1 **Varieties of microscopes**
.2 **Optic parts**
.3 **Mekanic parts**
.4 **Accessory apparatus** **Management of microscope**
.5 Illuminating apparatus
.6 **Preparation and mounting of objects**
.7 **Special preparation and study of inorganic material**
.8 " **botanic material** See 581.8 Histology
.9 " **zoologic material** " 591.8 "

579 Collectors manuals
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Adaptations for self preservation
.572 Against mekanic forces
2 Solidity of organs **4 Sensitivity** **Sensitiv plants**
3 Attachment of organs
.573 Against plants and animals
For symbiotic protection see 581.557
2 Anatomic means **5 Electric means**
Spines etc
4 Chemic means **7 Deceptiv means** **Mimicry**
Secretions, raphides etc **Protectiv resemblance**
.574 Means of attraction Fascination
.6 Economic botany Applied botany
See also 630 Agriculture
.61 Usefulness
.62 In nature
.63 As food and medicin
.632 Food for man
.633 Fodder plants and products
.634 Medicinal plants
Divided like 615.3
8 Drug adulterants
See also 614.35 Adulteration of drugs
.64 In chemistry and manufactures
.642 Fiber plants and fibers
Divided like 633.5
.643 Wood and wood products
Divided like 634.98. Do not clas here products specificly provided for under other hedings, e.g. Food products 581.63, Tanning materials 581.644, etc
.644 Tanning materials
.645 Oils
.646 Waxes
.647 Bleaching and dyeing materials
Divided like 667
.648 Gums, resins, essences etc
Divided like 668
.649 Other useful plants
.65 Noxiousness Weeds
See also 632.5 Parasitic and injurious plants
.66 Offensiv plants
.67 Plants causing diseases
.68 Injuring plant and animal products and inorganic substances
.69 Injuring living plants and animals
.692 Poisonous plants
.693 Parasitic "
See also 581.23 Parasitic diseases, 581.55763 Parasitism

581.7 Organografy Descriptiv anatomy
Divided like 581.4
.8 Histology Cytology
See also 578.8 Microscopic botany
.81 Theoretic and general questions
.811 Origin and nature
.812 Formation
.813 Modification
.814 Growth
Cambium activity. See also 581.134 Nutrition
.82 Kinds of tissues
See also 581.4 Morfology
.821 Absorptiv and conductiv or siv tissues Prosenchyma
.822 Aerativ tissues
.823 Synthetic " Chlorenchyma
.824 Secretiv and excretiv tissues Glandular tissues
.825 Water storage tissues Aqueous tissues
.827 Fundamental and mekanic tissues
2 Fundamental or ground tissues Parenchyma
3 Protectiv and mekanic or sustaining tissues
32 Collenchyma
33 Sclerenchyma
.84 Histologic structure of organs
Divided like 581.4
.87 Cytology Cel physiology
For general cytology see 576.3
.871 Theoretic and general questions
.872 General cel structure and contents
.873 Protoplasmic contents
2 Nucleus
22 Linin network 25 Spiremes
23 Chromosomes Chromatin 26 Nuclear membrane
24 Nucleolus
3 Plastids
32 Chloroplasts 33 Chromoplasts 34 Leucoplasts
4 Cytoplasm
42 Trophoplasm
43 Kinoplasm
432 Centrosomes Centrospheres
433 Asters
434 Blepharoplasts
46 Plasma membrane

581.874 Nonprotoplasmic contents Cel sap
2 **Food material: aleurone grains, etc**
4 **Vacuoles**
8 **Waste products**
3 **Pigments**

.875 Cel wall

.876 " activities
See also 581.186 Protoplasmic movements

2 **Cel reproduction**
See also 581.165 Vegetativ generation

22 Direct nuclear division Amitosis
23 Indirect " " Mitosis Karyokinesis
231 Theoretic and general questions
Dynamics of mitosis
232 Prophase
233 Metaphase
234 Anaphase Reduction division
Meiosis, chromosome reduction, synapsis
235 Telophase
238 Artificial mitosis
Mekanic or physical imitations
24 Segmentation of protoplasm
242 Cleavage by constriction or by furrows
243 " " cel plates
244 Free cel formation

3 **Cel unions and nuclear fusions**
See also 581.1662 Fertilization

5 **Cel degeneration and deth**
See also 581.13535 Degeneration, 581.13536 Deth

7 **Cel activities at critical ontogenetic periods**
See also 581.16 Generation, 581.3 Embryology

.877 Specialized plant cels
For reproductiv cels see 581.16 Generation, 581.3 Embryology

2 **Coenocytes**

.878 Comparativ cel morfology and physiology

.879 Other topics

581.9 Geografic botany Geografic distribution of plants

See also 581.527 Floristics

This Geografic clasification is to be uzed only for general works and cros references. 'Flora of North America' is 581.97; but 'North American cryptogams' is 586 with a reference from 581.97, but North American phanerogams go with 581.97 becauz it so completely covers the subject. General works covering both Phanerogamia and Cryptogamia ar put under 580 as books covering Vertebrates and Invertebrates ar put under 590

In applying these numbers to Fossil plants, 561, note that one more figure must be uzed than for fossil animals. The Zoology numbers ar alredy given in the 3d place in Paleontology, e.g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections ar groupt together and the section number must be repeated. Fossil phanerogams ar 561.2 not 562, which is assignd to Invertebrate zoology as more important, Lichens ar 561.91, etc. In the same way the Fossil flora of North America is 561.197, i.e. the first 2 Botany figures, 58, ar changed to 561 to giv the corresponding Fossil botany number, while in Zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

.91 Insular floras
Geografic distribution. Divided like 930–999

.92 Aquatic flora Marine flora
Geografic distribution. See 581.52632 for general discussions of aquatic plants, where the geografic feature is of distinctly minor importance. Clas here works on aquatic flora in general, when the geografic element is prominent, also works on marine flora divided like 551.46 and .47, e.g. Marine flora of Pacific ocean 581.925, but with Antarctic ocean included with Arctic on 581.928

.929 Freshwater flora Divided like 930–999

.93–.99 By country Divided like 930–999

582–589 Sistematic botany Taxonomy

Based on Bentham & Hooker's *Genera plantarum;* revized and expanded in 1928, in accordance with best German, English and American authorities, thereby bringing tables up to date and providing (without seriously disturbing erlier work) for clasifying material written by different authorities with varying ideas, as represented by books and articles, both old and new, which wil be found in libraries and to a stil greater extent in bibliografic collections

Authorities consulted

Bessey, C. E. & E. A. Essentials of college botany. c1914
Britton, N. L. Manual of the flora of the northern states and Canada. 1901
Clute, W. N. Fern allies of North America north of Mexico. 1928
Encyclopaedia Britannica
Engler, A. & Gilg, E. Syllabus der pflanzenfamilien. 1924
.....Prantl, K. Die natürlichen pflanzenfamilien. 1887–1909
2. aufl. 1924–
Hirmir, M. Handbuch der paläobotanik. 1927
Hutchinson, J. Families of flowering plants: 1 Dicotyledons. 1926
Rendle, A. B. Classification of flowering plants. 1904–25. 2v.
Standard dictionary
Swingle, D. B. Textbook of systematic botany. 1928
Webster, N. New international dictionary
West, G. S. Treastise on the British freshwater algae. New and rev. edition.. F. E. Fritsch. 1927

582 Phanerogamia Embryophyta siphonogama Spermatophyta Seed plants

For general works; clas works relating to a special order, family; genus, species etc under appropriate division of 583–585. See also 634.9 Forestry, 715.2 Trees

.1 **General groupings**
.11 By life duration
.112 Annuals
.113 Biennials
.114 Perennials
.12 Herbaceous plants
For grasses see 584.9
.13 Flowering plants
Wild flowers. Clas here general works on wild flowering plants, even when including trees and shrubs as wel as herbaceous plants. Clas wild flowering plants of a special locality in 581.93–.99
.14 Other herbaceous plants
.142 **Succulent herbs** .145 **Mat herbs**
.143 **Carpet herbs** **Polster** .146 **Cushion herbs**
.144 **Rosette** " .147 **Bush** "
.15 Woody plants
.16 Trees
.17 Shrubs
.172 **Bushes** .173 **Half shrubs**
.18 Woody vines
.19 Other
Woody succulents
.2–.9

See, in Appendix following Relativ index, table for Systematic botany from Universal Decimal Classification, which may be used as substitute for D. C. 582–589

583–584 Angiospermae Anthophyta Flowering plants

583 Dicotyledones Dicotyledonae Dicotyledoneae

.1 **Archichlamydeae Polypetalae**
See also 583.9 Apetalae
Axiflorae-apopetalae-polycarpellatae, Calyciflorae-apopetalae. Choripetalae. Dialypetalae
Archichlamydeae includes Polypetalae and Apetalae (583.9)

583.11–.255 Axiflorae-apopetalae-polycarpellatae

583.11–.193 Thalamiflorae

.11 Ranales Ranunculales
Polycarpicae
See also the following, included by Engler & Gilg under Ranales: 583.931 Lauraceae, 583.9312 Hernandiaceae

.111 **Ranunculaceae Crowfoot family**
Clas here Ranunculineae, given by Engler & Gilg as a suborder including Ranunculaceae, Menispermaceae (583.116), Berberidaceae (583.117) and Lardizabalaceae (583.1172)

.112 **Dilleniaceae Rough leaf tree family**
Clas here Dilleniales, given by Hutchinson as an order including Dilleniaceae and Crossosomataceae (583.36) See also 583.16 Theineae

.113 **Calycanthaceae Carolina allspice or strawberry shrub family**

.114 **Magnoliaceae Magnolia family**
Clas here Magnoliales, given by Hutchinson as an order including, besides Magnoliaceae and next 3 families below, Trochodendraceae (583.1191) and Cercidiphyllaceae (583.1192); clas here also Magnoliineae, given by Engler & Gilg as a suborder including, besides Magnoliaceae and the families given below (583.1144–.1152), Calycanthaceae (583.113), Lauraceae (583.931) and Hernandiaceae (583.9312)

2 **Winteraceae**

3 **Schizandraceae**
Included by Engler & Gilg as a tribe, Schizandreae, of Magnoliaceae (583.114)

4 **Himantandraceae**

5 **Lactoridaceae**

6 **Myristicaceae Myristiceae Nutmeg family**
Changed from 583.927, as most authorities consulted clas under Ranales (583.11) Clast by Hutchinson under Laurales (see 583.931)

7 **Monimiaceae**
Changed from 583.928, as most authorities consulted clas under Ranales (583.11) Clast by Hutchinson under Laurales (see 583.931)

8 **Gomortegaceae**
Clast by Hutchinson under Laurales (583.931), by other authorities consulted under Ranales (583.11)

.115 **Anonaceae Annonaceae Custard apple family**
Clas here Anonales, given by Hutchinson as an order including Anonaceae and Eupomatiaceae (583.1152)

2 **Eupomatiaceae**

.116 **Menispermaceae Moonseed family**

583.117 **Berberidaceae Barberry family**
Berberideae is, according to Engler & Gilg, a tribe belonging to this family. Clas here Berberidales, given by Hutchinson as an order including Berberidaceae etc

2 **Lardizabalaceae**

3 **Circaeasteraceae**

4 **Sargentadoxaceae**

.118 **Nymphaeaceae Waterlily family**
Clas here Nymphaeineae, given by Engler & Gilg as a suborder including Nymphaeaceae and Ceratophyllaceae (583.1182); clas here also Cabombaceae, included by Engler & Gilg as a subfamily, Cabomboideae, of Nymphaeaceae; and Nelumbaceae, included by Engler & Gilg as a subfamily, Nelumbonoideae, of Nymphaeaceae

2 **Ceratophyllaceae Ceratophylleae Hornwort family**
Changed from 583.987, as all authorities consulted clas under Ranales (583.11)

.119 Trochodendrineae

1 **Trochodendraceae Trochodendron family**

2 **Cercidiphyllaceae**

.12 Parietales Rhoeadales
See also the following included by Engler & Gilg under Parietales:

583.112	Dilleniaceae	583.462	Caricaceae
.245	Ochnaceae	.468	Begoniaceae
.45	Passiflorales	.469	Datiscaceae
		.983	Lacistemaceae

.121 **Sarraceniaceae Pitcher plant family**
Clas here Sarraceniales, given by most authorities consulted as an order including Sarraceniaceae, Droseraceae (583.393) and Nepenthaceae (583.9221)

.122 Rhoeadales Rhoedales Papaverales
See also 583.286 Bretschneideraceae, included by Engler & Gilg under Rhoeadales. Authorities differ considerably as to inclusivness of Rhoeadales

1 **Papaveraceae Poppy family**
Clas here Rhoeadineae, given by Engler & Gilg as a suborder of Rhoeadales (583.122) with only 1 family, Papaveraceae

2 **Moringaceae Moringeae**
Clas here Moringineae, given by Engler & Gilg as a suborder with only 1 family, Moringaceae. Clast by Hutchinson under Capparidales (see 583.13)

3 **Fumariaceae**
Included by Engler & Gilg as a subfamily, Fumarioideae, of Papaveraceae (583.1221)

.123 **Cruciferae Brassicaceae Mustard family**
Clas here Cruciales, given by Hutchinson as an order with only 1 family, Cruciferae

583.13 Capparidineae
Clas here Capparidales, given by Hutchinson as an order. See also 583.123 Cruciferae, included by Engler & Gilg under Capparidineae

.131 **Capparidaceae Capparideae Caper family**
Koeberliniaceae is included by Engler & Gilg as a subfamily, Koeberlinioideae, of Capparidaceae

.132 **Tovariaceae Tovaria family**

.133 **Resedaceae Mignonette family**
Clas here Resedineae, given by Engler & Gilg as a suborder with only 1 family, Resedaceae

.134 **Cistaceae Rock rose family**
Clas here Cistineae, given by Engler & Gilg as a suborder including Cistaceae and Bixaceae (583.138)

.135 **Violaceae Violarieae Violet family**
Clas here Violales, given by Hutchinson as an order including Violaceae etc

.136 **Cochlospermaceae**
Clas here Cochlospermineae, given by Engler & Gilg as a suborder with only 1 family, Cochlospermaceae

.137 **Canellaceae Winteranaceae Wild cinnamon family**

.138 **Bixaceae Bixineae Arnotto family**
Clas here Bixales, given by Hutchinson as an order including Bixaceae etc

.139 **Flacourtiaceae**
Clas here Flacourtiineae, given by Engler & Gilg as a suborder including Violaceae (583.135), Winteranaceae (583.137), Stachyuraceae (583.1392), Turneraceae (583.455), Passifloraceae (583.456), Malesherbiaceae (583.457) and Achariaceae (583.458)

2 **Stachyuraceae**

.14 Polygalineae
Given by Engler & Gilg as a suborder of Geraniales (583.21) including Polygalaceae (583.143) and Tremandraceae (583.142)
A group 'of doubtful position' (Rendle) variously placed — near Parietales (583.12), with Sapindales (583.28) or with Geraniales (583.21)
Clas here Polygalales, given by Hutchinson as an order including Polygalaceae (583.143) etc

.141 **Pittosporaceae Hedge laurel family**
Clast by Engler & Gilg under Saxifragineae (583.38) with Pittosporeae as a tribe of Pittosporaceae. Clas here Pittosporales, given by Hutchinson as an order including Pittosporaceae etc

.142 **Tremandraceae Tremandreae**
See note under 583.14

.143 **Polygalaceae Polygaleae Milkwort family**
See note under 583.14

.145 **Vochysiaceae San Juan family**
Clast by Engler & Gilg under Geraniales (583.21) Hutchinson includes under Polygalales (see 583.14)

583.15 Caryophyllineae

Clas here Caryophyllales, given by Bessey and Hutchinson as an order including Caryophyllaceae (583.152) etc. See also 583.91 Centrospermae

.151 **Frankeniaceae**

.152 **Caryophyllaceae Caryophylleae Pink family**

See also 583.91 Centrospermae

.153 Silenoideae Sileneae, pinks, catchflies, campions

.154 Alsinoideae Chickweed, starworts, stitchworts

See also 583.912 Illecebraceae, included by Engler & Gilg under Alsinoideae

1 Polycarpeae Allseeds
2 Alsineae Chickweeds
3 Sperguleae
4 Paronychieae Whitlow-worts
5 Scleranthеae
6 Pterantheae

.156 Portulacineae

See also 583.91 Centrospermae

1 **Portulacaceae Portulaceae Purslane family**

Clast by some authorities under Caryophyllales (see 583.15), by others under Centrospermae (583.91)

2 **Basellaceae**

.158 Tamaricineae Tamariscineae Tamaricaceae Tamarisk family

Clas here Tamaricales, given by Hutchinson as an order including Tamaricaceae etc. See also Frankeniaceae (583.151) and Elatinaceae (583.161), included by Engler & Gilg under Tamaricineae

.16 Theineae Guttiferales

Theineae is given by Engler & Gilg as a suborder of Parietales (583.12) including (besides most of families given in subdivisions below) Dilleniaceae (583.112) and Ochnaceae (583.245) Clas here Theales, given by Hutchinson as an order including Theaceae (583.166) etc. He also has Guttiferales, including Guttiferae (583.163) etc. Bessey and Rendle hav Guttiferales, including Theaceae (583.166), Guttiferae (583.163) etc, while Britton givs Theaceae directly under Parietales

.161 **Elatinaceae Elatineae Waterwort family**

See also 583.158 Tamaricineae

.162 **Hypericaceae Hypericineae St Johnswort family**

Included by Engler & Gilg and Rendle as a genus, Hypericum, under Guttiferae (583.163)

.163 **Guttiferaceae Guttiferae Clusiaceae Balsam fig family**

.164 **Eucryphiaceae**

.165 **Quiinaceae**

.166 **Theaceae Ternstroemiaceae Camelliaceae Tea or camellia family**

1 **Actinidiaceae**

2 **Saurauiaceae**

Included by Engler & Gilg in Actinidiaceae (583.1661)

3 **Medusagynaceae**

4 **Strasburgeriaceae**

Included by Hutchinson in Theaceae (583.166)

5 **Caryocaraceae Souari nut family**

6 **Marcgraviaceae**

.167 **Dipterocarpaceae Dipterocarpeae Wingd fruit tree family (camfor, gurjun-balsam, dammar)**

.168 **Chlaenaceae Schizolaenaceae**

Clast by Hutchinson under Theales (see 583.16), by Bessey and Engler & Gilg under Malvales (583.17) Clas here Chlaenineae, given by Engler & Gilg as a suborder with only 1 family, Chlaenaceae

583.17 Malvales Columniferae

See also 583.168 Chlaenaceae, included by Engler & Gilg under Malvales

.171 Malvineae

.172 **Malvaceae Mallow or cotton family**

.173 **Bombacaceae Silk-cotton tree family**

.18 **Sterculiaceae Coco family**

.19 **Tiliaceae Linden family**

Clas here Tiliales, given by Hutchinson as an order including Tiliaceae etc

.191 **Gonystylaceae**

.192 Elaeocarpineae Elaeocarpaceae

.193 Scytopetalineae Scytopetalaceae

.2 **Disciflorae**

.21 Geraniales

Clas here Geraniineae, given by Engler & Gilg as a suborder of Geraniales, including most families of the order. See also the following, included by Engler & Gilg in Geraniales:

583.14 Polygalineae
.142 Tremandraceae
.143 Polygalaceae
583.145 Vochysiaceae
.951 Euphorbiaceae

.211 **Linaceae Flax family**

.212 **Erythroxylaceae Coca family (cocain)**

.213 **Humiriaceae Bastard bullet tree**

.214 **Malpighiaceae Golden spoon tree**

Clas here Malpighiineae, given by Engler & Gilg as a suborder of Geraniales (583.21) including Malpighiaceae, Trigoniaceae (583.215) and Vochysiaceae (583.145); clas here also Malpighiales, given by Hutchinson as an order including Malpighiaceae etc

.215 **Trigoniaceae**

.221 **Zygophyllaceae Lignum vitae or caltrop family**

Zygophylleae is given by Engler & Gilg as a tribe of Zygophyllaceae, subfamily Zygophylloideae

.223 **Geraniaceae Geranium family**

.224 **Oxalidaceae Wood sorrel family (oxalis)**

.225 **Tropaeolaceae Nasturtium or Indian cres, canary bird flower**

.226 **Balsaminaceae Jewel weed family (touch-me-not)**

Bentham & Hooker, Bessey, Hutchinson and Rendle clas this with Geraniales (583.21); Britton and Engler & Gilg with Sapindales (583.28) Clas here Balsaminineae, given by Engler & Gilg as a suborder with only 1 family, Balsaminaceae

.23 **Rutaceae Rue family**

Clas here Rutales, given by Hutchinson as an order including Rutaceae etc

.241 **Simarubaceae Bitterwood or ailantus family**

Simarubeae is given by Engler & Gilg as a tribe of Simarubaceae, subfamily Simaruboideae

.242 **Cneoraceae**

.245 **Ochnaceae Red ironwood family**

See also 583.16 Theineae

.247 **Burseraceae Torchwood family**

.251 **Meliaceae Mahogany family**

Clas here Meliales, given by Hutchinson as an order with only 1 family, Meliaceae

.252 **Akaniaceae**

.253 **Callitrichaceae Water starwort family**

Clas here Callitrichineae, given by Engler & Gilg as a suborder with only 1 family, Callitrichaceae

.255 **Dichapetalaceae Chailletiaceae**

Clas here Dichapetalineae, given by Engler & Gilg as a suborder with only 1 family, Dichapetalaceae

583.26–.497 Calyciflorae-apopetalae

583.26 Olacales Olacaceae Olacineae Olacad family
Olacaceae is variously clast: by Hutchinson in Olacales, by Engler & Gilg and Rendle in Santalales (see 583.942 Santalineae), by Bessey in Celastrales (583.27)

.27 Celastrales
Included by Britton and Engler & Gilg under Sapindales (583.28); Bentham & Hooker, Bessey, Hutchinson and Rendle giv as separate order

.271 Celastrineae
Given by Engler & Gilg as a suborder including, besides the familics given below, Salvadoraceae (583.716)

.272 **Celastraceae Staf tree family**
.273 **Cyrillaceae Cyrilla family**
.274 **Stackhousiaceae Stackhousieae**
.275 **Corynocarpaceae**
Rhamnaceae, previously clast on this number, has been changed to 583.2791, as Britton, Engler & Gilg, Hutchinson and Rendle hav order Rhamnales (see 583.279) including Rhamnaceae and Vitaceae (583.2792)

.276 **Hippocrateaceae**
.277 **Staphyleaceae Bladder nut family**
.278 **Pentaphylacaceae Pentaphyllaceae**
Pentaphylax (only genus belonging to this family) included by Hutchinson in Theaceae (583.166)

1 **Aquifoliaceae Ilicaceae Ilicineae Holly family**
Changed from 583.269, as recent authorities clas family under Celastrales (583.27)

.279 Rhamnales
1 **Rhamnaceae Buckthorn family**
Rhamneae is given by Engler & Gilg as a tribe of Rhamnaceae. Changed from 583.275 as being a family of order Rhamnales, as constituted by Britton, Engler & Gilg, Hutchinson and Rendle

2 **Vitaceae Ampelidaceae Ampelideae Vine or grape family**

.28 Sapindales
See also following, included by Engler & Gilg under Sapindales:
583.226 Balsaminaceae 583.716 Salvadoraceae
.27 Celastrales .984 Empetrineae

.281 Sapindineae
.282 **Sapindaceae Soapberry family**
.283 **Aextoxicaceae**
.284 **Aceraceae Maple family**
.285 **Hippocastanaceae Buckeye family**
.286 **Bretschneideraceae**
Included by Hutchinson in Sapindaceae (583.282) Clas here Bretschneiderineae, given by Engler & Gilg as a suborder of Rhoeadales (583.122) with only 1 family, Bretschneideraceae

.287 Melianthineae
1 **Melianthaceae Honey plant family**
2 **Greyiaceae**
Included by Engler & Gilg in Melianthaceae (583.2871) as a genus, Greyia, and by Bentham & Hooker in Sapindaceae (583.282); Hutchinson givs as a family under Cunoniales (see 583.397)

583.288 Didiereineae Didiereaceae
.289 Icacinineae Icacinaceae
.291 Sabiineae Sabiaceae
.292 Anacardiineae Anacardiaceae Cashew or sumac family
.293 Buxineae Buxaceae Box family
Clast by Engler & Gilg under Sapindales (583.28), by Hutchinson under Hamamelidales (see 583.394) and by Rendle under Tricoccae (see 583.951)

.294 Limnanthineae Limnanthaceae False mermaid family
Clast by Engler & Gilg under Sapindales (583.28), by Bessey and Hutchinson under Geraniales (583.21)

.297 Coriariineae Coriariaceae Coriarieae
Clas here Coriariales, given by Hutchinson as an order with only 1 family, Coriariaceae. Changed from 583.298 to bring into affiliation with Sapindales (583.28) under which it is clast by Engler & Gilg

.298 Anomalous Disciflorae
583.297 and .298 hav been transposed to bring Coriariaceae under Sapindales. See note under 583.297

583.3–.497 Calyciflorae

.3 Rosales
See also the following, included by Engler & Gilg under Rosales: 583.141 Pittosporaceae, 583.92 Podostemonineae, 583.971 Platanaceae

.31 Rosineae
See also 583.971 Platanaceae, included by Engler & Gilg under Rosineae

.311 **Connaraceae**
Clast by Hutchinson under Sapindales (583.28)

.32 **Leguminosae Pulse family**
.321 Mimosoideae Mimosaceae Mimosa subfamily
.322 Papilionatae Papilionaceae Fabaceae Pea subfamily
.323 Caesalpinioideae Caesalpiniaceae Cassiaceae Senna subfamily
The 3 groups, 583.321–.323 ar given by Engler & Gilg and Rendle as subfamilies of Leguminosae; Bessey, Britton and Hutchinson uze the family names — Bessey and Britton as families of Rosales, Hutchinson as families of Leguminosae, which he givs as an order. Krameriaceae is included by Engler & Gilg in Caesalpinioideae as a tribe, Kramerieae

.36 **Crossosomataceae**
See also 583.112 Dilleniales

.37 **Rosaceae Rose family**
Malaceae and Pomaceae ar included by Engler & Gilg in Rosaceae, subfamily Pomoideae (apple subfamily); Prunaceae and Drupaceae or Amygdalaceae ar included by Engler & Gilg in Rosaceae, subfamily Prunoideae (plum or peach subfamily)

583.38 Saxifragineae

Clas here Saxifragales, given by Hutchinson as an order including Saxifragaceae (583.381) etc. See also 583.141 Pittosporaceae, included by Engler & Gilg under Saxifragineae

.381 **Saxifragaceae Saxifrage family**

The following, given as families by some authorities, ar included by Engler & Gilg in Saxifragaceae: Saxifrageae as a tribe, subfamily Saxifragoideae; Hydrangeaceae as a subfamily, Hydrangeoideae (Hydrangea subfamily); Escalloniaceae as a subfamily, Escallonioideae; Parnassiaceae as a tribe, Parnassieae, of Saxifragoideae; Grossulariaceae in subfamily Ribesioideae (gooseberries); Iteaceae is also included in Saxifragaceae

39 **Crassulaceae Orpine family**

Penthoraceae is included by Rendle in Crassulaceae

.391 **Cephalotaceae Australian pitcher plant family**

.392 **Byblidaceae Roridulaceae**

Considerd 2 families by Engler & Gilg, alternativ names by Hutchinson; formerly included in Droseraceae (583.393)

.393 **Droseraceae Sundew family**

See also 583.121 Sarraceniaceae (Sarraceniales) Bentham & Hooker and Bessey clas under Rosales (583.3)

.394 **Hamamelidaceae Witch hazel family**

Hamamelideae is given by Engler & Gilg as a tribe of Hamamelidaceae, subfamily Hamamelidoideae. Clas here Hamamelidales, given by Hutchinson as an order including Hamamelidaceae etc

2 **Myrothamnaceae**

3 **Eucommiaceae**

.395 **Brunelliaceae**

Clast by Hutchinson under Cunoniales (see 583.397)

.396 **Bruniaceae**

Clast by Hutchinson under Hamamelidales (see 583.394)

.397 **Cunoniaceae**

Clas here Cunoniales, given by Hutchinson as an order including Cunoniaceae etc

583.4 Myrtales Myrtiflorae

See also 583.933 Thymelaeineae, included by Engler & Gilg under Myrtiflorae

.41 Myrtineae

.411 **Rhizophoraceae Rhizophoreae Mangrove family**

.412 **Punicaceae Pomegranate family**

.413 **Hydrocaryaceae Trapaceae Water chestnut family**

Included by some authorities in Onagraceae (see 583.445)

.414 **Combretaceae Myrobalan family**

.415 **Nyssaceae Tupelo or sour gum family**

Clast by Hutchinson under Umbelliflorae (583.48)

.416 **Alangiaceae**

Clast by Hutchinson under Umbelliflorae (583.48)

.417 **Halorrhagaceae Haloragaceae Haloragidaceae Halorrhagidaceae Halorageae Water-milfoil family**

Changed from 583.398, as most authorities consulted clas under Myrtales (583.4) Clast by Hutchinson under Lythrales (see 583.441)

.42 **Myrtaceae Myrtle family**

.423 **Lecythidaceae**

Brazil nut, monkey pot tree, sapucaia nut etc

.43 **Melastomaceae Melastomataceae Medow beauty family**

.441 **Lythraceae Lythrarieae Loosestrife family**

Clas here Lythrales, given by Hutchinson as an order including Lythraceae etc

.442 **Heteropyxidaceae**

Clast by Hutchinson under Rhamnales (583.279)

.443 **Sonneratiaceae**

.444 **Crypteroniaceae**

.445 **Onagraceae Oenotheraceae Onagrarieae Evening primrose family**

Oenotheras is given by Engler & Gilg as a genus of Onagraceae

.446 Hippuridineae Hippuridaceae Mare's tail family

Given by Engler & Gilg as a suborder of Myrtiflorae (583.4) with only 1 family. Formerly included in Halorrhagaceae (see 583.417), where it is left by Britton and Hutchinson as the genus Hippuris

.447 Cynomoriineae Cynomoriaceae

Given by Engler & Gilg as a suborder of Myrtiflorae, with only 1 family; clast by Hutchinson and Rendle under Santalales (583.94)

583.45 Passiflorales

See also 583.12 Parietales

.451 **Samydaceae**

Clast by Hutchinson under Bixales (see 583.138)

.453 **Loasaceae Loaseae Loasa or star flower family**

Clas here Loasineae, given by Engler & Gilg as a suborder of Parietales (583.12) with only 1 family, Loasaceae; clas here also Loasales, given by Bessey and Hutchinson as an order including Loasaceae etc

.454 **Ancistrocladaceae**

Clast by Bessey under Loasales (see 583.453) Clas here Ancistrocladineae, given by Engler & Gilg as a suborder of Parietales (583.12) with only 1 family, Ancistrocladaceae

.455 **Turneraceae**

.456 **Passifloraceae Passifloreae Passion flower family**

.457 **Malesherbiaceae**

.458 **Achariaceae**

.46 Cucurbitales Peponiferae

According to Engler & Gilg this order, with only 1 family, Cucurbitaceae (583.461), belongs with Metachlamydeae (583.5); Britton classes the family in same large division under Campanulales (583.57); Bessey, Hutchinson and Rendle leav it with Archichlamydeae (Polypetalae) as did Bentham & Hooker. Cucurbitales or Peponiferae includes, according to Hutchinson and Rendle, 583.461, 583.468–.469; Hutchinson also includes 583.462

.461 **Cucurbitaceae Gourd family**

.462 **Caricaceae Papayaceae Papaya family**

Clast by Hutchinson under Cucurbitales (583.46) Clas here Papayineae, given by Engler & Gilg as a suborder of Parietales (583.12) with only 1 family, Caricaceae

.468 **Begoniaceae Begonia family**

Clast by Hutchinson and Rendle under Cucurbitales (583.46) Clas here Begoniineae, given by Engler & Gilg as a suborder of Parietales (583.12) with only 1 family, Begoniaceae

.469 **Datiscaceae Datisceae American false hemp, Asiatic bastard hemp**

Clast by Hutchinson and Rendle under Cucurbitales (583.46) Clas here Datiscineae, given by Engler & Gilg as a suborder of Parietales (583.12) with only 1 family, Datiscaceae

.47 Ficoidales

.471 **Cactaceae Cacteae Cactus family**

Clas here Opuntiales, given by Britton, Engler & Gilg and Rendle; and Cactales, given by Bessey and Hutchinson, as an order with only 1 family, Cactaceae

.475 **Aizoaceae Ficoidaceae Sea purslane or carpet weed family**

Ficoideae is given by Engler & Gilg and Rendle as a subfamily of Aizoaceae. See also 583.91 Centrospermae

.476 **Molluginaceae**

Included by Engler & Gilg as a subfamily, Molluginoideae, of Aizoaceae (583.475)

.48 Umbelliflorae Umbellales

.481 **Umbelliferae Apiaceae Ammiaceae Parsley or carrot family**

.491 **Araliaceae Ginseng family**

.497 **Cornaceae Dogwood family**

583.5 **Metachlamydeae Gamopetalae Monopetalae Sympetalae**

Axiflorae-gamopetalae-polycarpellatae, Axiflorae-gamopetalae-dicarpellatae, Calyciflorae-gamopetalae

583.51–.591 Sympetalae-tetracyclicae-inferae Calyciflorae-gamopetalae Inferae

.51 Rubiales

See also the following, included by Engler & Gilg in Rubiales: 583.531 Valerianaceae, 583.541 Dipsacaceae

.511 **Caprifoliaceae Honeysuckle family**

.513 **Adoxaceae Moschatel family**

.52 **Rubiaceae Madder family**

.53 Asterales

.531 **Valerianaceae Valerian family**

Clas here Valerianales, given by Britton as an order including Valerianaceae and Dipsacaceae (583.541); clas here also Valerianeae, given by Engler & Gilg as a tribe of Valerianaceae. See also 583.51 Rubiales

.541 **Dipsacaceae Dipsaceae Teasel family**

See also 583.51 Rubiales

.546 **Calyceraceae Calysereae**

See also 583.57 Campanales

.55 **Compositae Composits**

Compositae is sinonimous with Bessey's order Asterales. In uzing family names below, rather than tribe names, Bessey is followd. See also 583.57 Campanales

.552 Liguliflorae Cichoriaceae Lactucaceae Cichorieae Chicory or lettuce family

.553 Tubuliflorae Labiatiflorae

2 Mutisiaceae Mutisieae Mutisia family

3 Carduaceae Cynareae Thistle family

4 Arctotidaceae Arctotideae Gazania family

5 Calendulaceae Calenduleae Marigold family (calendula)

6 Senecionidaceae Senecioneae Groundsel family

7 Anthemidaceae Anthemideae Camomile family

8 Heleniaceae Helenieae False sunflower family (sneezeweed)

.5542 Inulaceae Inuleae Everlasting family

3 Asteraceae Astereae Aster family

4 Eupatoriaceae Eupatorieae Blazing star family (hemp-agrimony)

5 Vernoniaceae Vernonieae Ironweed family (elefant's foot)

6 Ambrosiaceae Ambrosiinae Ragweed family

Included by Engler & Gilg and Rendle in Helianthea (583.5547)

7 Helianthaceae Heliantheae Sunflower family

583.57 Campanales Campanulales Campanulatae
See also the following, included by Engler & Gilg in Campanulatae: 583.546 Calyceraceae, 583.55 Compositae

.571 **Stylidiaceae Candolleaceae Stylidieae Stylewort family**

.58 **Goodeniaceae Goodenovieae**

.581 **Brunoniaceae**

.59 **Campanulaceae Bluebell, bellwort or bellflower family**

.591 **Lobeliaceae**
Included by Engler & Gilg as a subfamily, Lobelioideae, of Campanulaceae (583.59)

583.6–.6864 **Sympetalae-pentacyclicae Heteromerae Axiflorae-gamopetalae-polycarpellatae**
See also 583.899 Plantaginaceae, included in this group by Bessey

.6 Ericales

.61 Ericineae
Includes following 5 families, 583.611–.631

.611 **Vacciniaceae Whortleberry or huckleberry family**
Included by Engler & Gilg and Rendle as a subfamily, Vaccinioideae, of Ericaceae (583.62)

.62 **Ericaceae Heath family**

.622 **Clethraceae White alder family**

.63 **Monotropaceae Indian-pipe family**
Included by Engler & Gilg and Rendle as a subfamily, Monotropoideae, of Pyrolaceae (583.631) with Monotropcae as a tribe

.631 **Pyrolaceae Pirolaceae Wintergreen family**

.64 **Epacridaceae Epacris family**
Clas here Epacridineae, given by Engler & Gilg as a suborder of Ericales (583.6) with only 1 family, Epacridaceae, with Epacrideae as a tribe

.65 **Diapensiaceae Flowering moss, pyxie or diapensia family**
Clas here Diapensiales, given by Engler & Gilg as an order with only 1 family, Diapensiaceae

.66 **Lennoaceae Lennoa family**
Clas here Lennoineae, given by Engler & Gilg as a suborder of Tubiflorae (583.76) with only 1 family, Lennoaceae

.67 Primulales

.671 **Plumbaginaceae Leadwort or plumbago family**
Clas here Plumbaginales, given by Engler & Gilg and Rendle as an order with only 1 family, Plumbaginaceae, with Plumbagineae as a tribe

.672 **Primulaceae Primrose family**

.677 **Myrsinaceae Marlberry family**
Myrsineae is given by Engler & Gilg as a tribe of Myrsinaceae, subfamily Myrsinoideae. Clas here Myrsinales, given by Hutchinson as an order with only 1 family, Myrsinaceae

.678 **Theophrastaceae**

583.68 Ebenales

681 Sapotineae

1 **Sapotaceae Sapodilla family**

2 **Hoplestigmataceae**

.685 Diospyrineae

1 **Ebenaceae Ebony family**

.6861 **Styracaceae Styraceae Storax family**
Clas here Styracales, given by Hutchinson as an order including Styracaceae and the next 3 families

2 **Diclidantheraceae**

3 **Symplocaceae Sweetleaf family**

4 **Lissocarpaceae**

583.7–.8 **Sympetalae-tetracyclicae-superae Axiflorae-gamopetalae-dicarpellatae Bicarpellatae**

.7 Gentianales Contortae

.71 **Oleaceae Oliv family**
Clas here Oleineae, given by Engler & Gilg as a suborder with only 1 family, Oleaceae; clas here also Oleales, given by Rendle as an order including Oleaceae and Salvadoraceae (583.716)

.716 **Salvadoraceae Salvadora family**
See also 583.271 Celastrineae, 583.28 Sapindales

.72 Gentianineae

.721 **Apocynaceae Dogbane family**
Clas here Apocynales, given by Hutchinson as an order including Apocynaceae and Asclepiadaceae (583.73)

.73 **Asclepiadaceae Milkweed family**
Asclepiadeae is given by Engler & Gilg and Rendle as a tribe of Asclepiadaceae, subfamily Cynanchoideae

.74 **Loganiaceae Logania family**
Clas here Loganiales, given by Hutchinson as an order including Loganiaceae and Oleaceae (583.71)

.741 **Desfontaineaceae**
Included by Hutchinson in Loganiaceae (583.74)

.75 **Gentianaceae Gentian family**
Gentianeae is given by Engler & Gilg as a tribe of Gentianaceae, subfamily Gentianoideae

.751 **Menyanthaceae Buckbean family**
Included by Engler & Gilg as a subfamily, Menyanthoideae, of Gentianaceae (583.75)

583.76 Tubiflorae

Includes 583.761–.891; see also 583.66 Lennoineae

.761 Polemoniales

Britton's Polemoniales corresponds to Engler & Gilg's and Rendle's Tubiflorae (583.76); Bessey's Polemoniales corresponds to Bentham & Hooker's (583.7611–.79); Hutchinson's includes only Polemoniaceae (583.7611) and Hydrophyllaceae (583.764)

1 **Polemoniaceae Polemonium or phlox family**

.762 **Fouquieraceae Fouquieriaceae Candlewood family**

.764 **Hydrophyllaceae Waterleaf family**

.77 **Boraginaceae Borraginaceae Boragineae Borage or forget-me-not family**

Clas here Borraginineae, given by Engler & Gilg as a suborder of Tubiflorae (583.76) including Borraginaceae and Hydrophyllaceae (583.764) Clas here also Boraginales, given by Hutchinson as an order with only 1 family, Boraginaceae

.78 **Convolvulaceae Convolvulus or morning-glory family**

Clas here Convolvulineae, given by Engler & Gilg as a suborder of Tubiflorae (583.76) including Convolvulaceae, Polemoniaceae (583.7611) and Fouquieraceae (583.762) Clas here also Convolvulales, given by Rendle as an order with only 1 family, Convolvulaceae

.781 **Cuscutaceae Dodder family**

Included by Engler & Gilg as a subfamily, Cuscutoideae, of Convolvulaceae (583.78)

.79 **Solanaceae Nightshade or potato family**

Clas here Solanales, given by Hutchinson as an order including Solanaceae and Convolvulaceae (583.78) See also 583.8 Solanineae

.792 **Nolanaceae**

Included by Hutchinson in Convolvulaceae (583.78) See also 583.8 Solanineae

583.8 Personales Scrophulariales Solanineae

Besides families given on 583.81–.852 Engler & Gilg includes under Solanineae Solanaceae (583.79) and Nolanaceae (583.792)

.81 **Scrophulariaceae Scrophularineae Figwort or snapdragon family**

See also 583.876 Selagineae, included by Engler & Gilg under Scrophulariaceae as a tribe of subfamily Antirrhinoideae

.821 **Orobanchaceae Broomrape family**

.823 **Globulariaceae Globe daisy family**

.825 **Lentibulariaceae Lentibularieae Bladderwort family**

.829 **Columelliaceae**

.83 **Gesneriaceae Gesneraceae**

.84 **Bignoniaceae Bignonia, catalpa or trumpet-creeper family**

.85 **Pedaliaceae Pedalineae Pedalium family**

.852 **Martyniaceae Unicorn plant family**

.86 **Acanthaceae Acanthus family**

Clas here Acanthineae, given by Engler & Gilg as a suborder of Tubiflorae (583.76)

.87 Lamiales

.871 **Myoporaceae Bastard sandalwood family**

Myoporineae is given by Engler & Gilg as a suborder of Tubiflorae (583.76) with only 1 family, Myoporaceae

.873 **Phrymaceae Lopseed family**

Clas here Phryminea, given by Engler & Gilg as a suborder of Tubiflorae (583.76) with only 1 family, Phrymaceae

.876 **Selaginaceae Dwarf heath shrub family**

Included by Engler & Gilg in Scrophulariaceae (583.81) as a tribe, Selagineae

.88 Verbenineae

Given by Engler & Gilg as a suborder of Tubiflorae (583.76) including following 2 families

.881 **Verbenaceae Vervain family**

.891 **Lamiaceae Labiatae Mint family**

.899 Plantaginales Plantaginaceae Plantagineae Plaintain family

Plantaginaceae is clast by Bessey under Primulales (583.67); other authorities consulted clas it as only family of order Plantaginales

583.9 **Apetalae Monochlamydeae**
See also 583.1 Archichlamydeae

.91 Centrospermae Chenopodiales Curvembryeae
See also the following, included by Engler & Gilg under Centrospermae: 583.15 Caryophyllineae, 583.156 Portulacineae, 583.475 Aizoaceae

.912 **Illecebraceae Illecebrum or knotwort family**
See also 583.154 Alsinoideae

.913 Chenopodiales
Under this order Hutchinson includes families given below in 583.9131-.916 except 583.9153 Nyctaginaceae; he also includes here Basellaceae (583.1562) All families of this group ar clast by Bessey under Caryophyllales (see 583.15)

1 **Amarantaceae Amaranthaceae Amaranth family**

.914 **Chenopodiaceae Goosefoot family**
Clas here Chenopodiineae, given by Engler & Gilg as a suborder of Centrospermae (583.91) including Chenopodiaceae and Amarantaceae (583.9131)

.915 **Phytolaccaceae Pokeweed family**
Clas here Phytolaccineae, given by Engler & Gilg as a suborder of Centrospermae (583.91) including, besides Phytolaccaceae, the 2 families, Cynocrambaceae (583.9152) and Nyctaginaceae (583.9153), also Aizoaceae (583.475)

2 **Cynocrambaceae Thelygonaceae Dog cabbage family**

3 **Nyctaginaceae Nyctagineae Four-o'clock family**
Changed from 583.911, to bring into closer relation with Phytolaccaceae (583.915) and Cynocrambaceae (583.9152)

.916 **Batidaceae Batideae Batis family**
Clas here Batidales, given by Engler & Gilg as an order with only 1 family, Batidaceae

.917 Polygonales Polygonaceae Buckwheat family
Given by Britton, Engler & Gilg and Rendle as an order with only 1 family; Hutchinson includes Illecebraceae (583.912)

.92 Multiovulatae aquaticae Podostemonales
Clas here Podostemonineae, given by Engler & Gilg as a suborder of Rosales (583.3)

.921 **Podostemonaceae Podostemaceae Riverweed family**

1 **Hydrostachyaceae Hydrostachydaceae**

.922 Multiovulatae terrestres Aristolochiales

1 **Nepenthaceae Indian pitcherplant family**
Clast by Hutchinson under Aristolochiales (583.922); by Bessey, Britton, Engler & Gilg and Rendle under Sarraceniales (see 583.121)

2 **Hydnoraceae**

.923 **Rafflesiaceae Cytinaceae Patmawort family**

.924 **Aristolochiaceae Birthwort family**

583.925 Micrembryeae Piperales

1 **Piperaceae Pepper family**

2 **Saururaceae Lizard's-tail family**

.926 **Chloranthaceae**

.93 Daphnales

.931 **Lauraceae Laurineae Laurel family**
Clas here Laurales, given by Hutchinson as an order including Lauraceae etc. See also 583.11 Ranales, 583.114 Magnoliineae

2 **Hernandiaceae Jack-in-a-box**
Clast by Hutchinson under Laurales (see 583.931) See also 583.11 Ranales, 583.114 Magnoliineae

.932 Proteales Proteaceae Honey flower

.933 Thymelaeales
Clas here Thymelaeineae, given by Engler & Gilg as a suborder of Myrtiflorae (583.4) All families of this group ar clast by Bessey under Celastrales (583.27)

1 **Thymelaeaceae Mezereum or mezereon family**

.934 **Penaeaceae**

.935 **Elaeagnaceae Oleaster family**

.936 **Geissolomataceae Geissolomaceae**

.937 **Oliniaceae Hard pear**

.94 Santalales Achlamydosporeae
All families of this group ar clast by Bessey under Celastrales (583.27) See also 583.26 Olacaceae, included under Santalales by Engler & Gilg and Rendle

.941 Loranthineae Loranthaceae Mistletoe family

.942 Santalineae
See also 583.26 Olacaceae, included under Santalineae by Engler & Gilg

.943 **Santalaceae Sandalwood family**

.944 **Myzodendraceae Myzodendron family**

.945 **Opiliaceae**

.946 **Grubbiaceae**

1 **Octoknemataceae**

.947 Balanophorineae Balanophoraceae Balanophoreae

583.95 Unisexuales

.951 Tricoccae Euphorbiales Euphorbiaceae Spurge family

Tricoccae is given by Engler & Gilg as a suborder of Geraniales (583.21) with only 1 family, Euphorbiaceae; Hutchinson givs Euphorbiales as an order with only 1 family; Rendle givs Tricoccae as an order including Euphorbiaceae etc

.961 Balanopsidales Balanopsidaceae Balanopseae

.962 Urticales Urticiflorae

1 **Urticaceae Nettle family**

2 **Moraceae Mulberry family**

3 **Cannabinaceae**

Included by Engler & Gilg in Moraceae (583.9622) as a subfamily, Cannaboideae

4 **Scyphostegiaceae**

5 **Ulmaceae Elm family**

6 **Barbeyaceae**

.971 **Platanaceae Plane tree family**

See also 583.31 Rosineae

.972 Leitneriales Leitneriaceae Leitnerieae Corkwood family

.973 Juglandales

1 **Juglandaceae Juglandeae Walnut family**

Britton and Engler & Gilg giv this as only family in Juglandales (583.973); Hutchinson includes also Julianiaceae (583.9732)

2 **Julianiaceae Julianaceae**

Clas here Julianiales, given by Engler & Gilg and Rendle as an order with only 1 family, Julianiaceae

.974 Myricales Myricaceae Sweet-gale or bayberry family

.975 Casuarinales Casuarinaceae Casuarineae Beefwood

.976 Fagales Cupuliferae

.977 **Fagaceae Beech or oak family**

.978 **Betulaceae Birch family**

.979 **Corylaceae**

Included by Engler & Gilg in Betulaceae (583.978) as a tribe, Coryleae

.98 **Other dicotyledones Anomali**

.981 Salicales Salicaceae Salicineae Willow family

.982 Garryales Garryaceae Fever bush

.983 Lacistemineae Lacistemaceae

Given by Engler & Gilg as a suborder of Parietales (583.12) with only 1 family, Lacistemaceae; family is clast by Bessey under Ranales (583.11), by Hutchinson under Piperales (583.925)

.984 Empetrineae Empetraceae Crowberry family

Clast by Bessey, Britton and Engler & Gilg under Sapindales (583.28), by Hutchinson and Rendle under Celastrales (583.27)

.985 Pandales Pandaceae

584 Monocotyledones Monocotyledonae Monocotyledoneae

584.1–.2 Monocotyledoneae–epigynae

.1 **Microspermae Microspermeae**

.11 Hydrocharideae Hydrales Hydrocharitaceae Vallisneriaceae Frog's bit or tape gras family

See also 584.72 Helobiae, 584.73 Butomineae

.12 Orchidales

.13 **Burmanniaceae Burmannia family**

Clas here Burmanniineae, given by Engler & Gilg as a suborder with only 1 family, Burmanniaceae

.15 **Orchidaceae Orchideae Orchis or orchid family**

Clas here Gynandrae, given by Engler & Gilg as a suborder with only 1 family, Orchidaceae

.2 **Epigynae Epigyneae Iridales**

.21 Scitamineae Arillatae Scitaminales Musales

.211 **Marantaceae Arrowroot family**

.212 **Cannaceae Canna family**

.213 **Zingiberaceae Ginger family**

.214 **Musaceae Banana family**

.22 Bromeliineae Bromeliaceae Pineapple family

Bromeliineae is given by Engler & Gilg as a suborder of Farinosae (584.3) including Bromeliaceae, Rapateaceae (584.39) and Thurniaceae (584.391)

.23 Liliiflorae Liliales

Clas here Liliineae, given by Engler & Gilg as a suborder including the families in 584.231–.323 (except 584.24 Iridaceae) See also 584.45 Juncaceae. For scope of Bessey's Liliales see note under 584.3

.231 **Haemodoraceae Bloodwort family**

.24 **Iridaceae Irideae Iris family**

Clas here Iridineae, given by Engler & Gilg as a suborder with only 1 family, Iridaceae

.25 **Amaryllidaceae Amaryllis family**

Amaryllideae is given by Engler & Gilg as a tribe of Amaryllidaceae, subfamily Amaryllidoideae

.26 **Taccaceae**

.27 **Dioscoreaceae Yam family**

.28 **Velloziaceae Tree lily**

Rendle includes this as a tribe, Vellozieae, of Amaryllidaceae (584.25)

584.3–.9 Monocotyledoneae-hypogynae

584.3 **Coronarieae Farinosae Xyridales**
See also the following, included by Engler & Gilg under Farinosae: 584.22 Bromeliineae, 584.41 Flagellariineae, 584.81 Enantioblastae Bessey's Liliales (see 584.23) corresponds more nearly to this group than to Liliiflorae (Liliales) (584.23) of Britton, Engler & Gilg and Rendle

.31 **Stemonaceae Roxburghiaceae**
See also 584.23 Liliiflorae

.32 **Liliaceae Lily family**
See also 584.23 Liliiflorae

.321 **Melanthaceae Bunch flower family**
Included by Engler & Gilg as a subfamily, Melanthioideae, of Liliaceae (584.32)

.322 **Convallariaceae Lily-of-the-valley family**
Included by Engler & Gilg as a tribe, Convallarieae, of Liliaceae (584.32)

.323 **Smilaceae Smilax family**
Included by Engler & Gilg as a subfamily, Smilacoideae, of Liliaceae (584.32)

.33 Pontederiineae

.331 **Cyanastraceae**

.34 **Pontederiaceae Pickerel weed family**

.35 Philydrineae Philydraceae
Given by Engler & Gilg as a suborder with only 1 family, Philydraceae

.36 **Xyridaceae Xyrideae Yellow-eyed gras family**
See also 584.81 Enantioblastae

.37 **Mayacaceae Mayaceae Mayaca family**
See also 584.81 Enantioblastae

.38 **Commelinaceae Spiderwort family**
Clas here Commelinineae, given by Engler & Gilg as a suborder with only 1 family, Commelinaceae

.39 **Rapateaceae**
See also 584.22 Bromeliineae

.391 **Thurniaceae**
See also 584.22 Bromeliineae

.4 **Calycinae Calycineae**

.41 Flagellariineae Flagellariaceae Flagellaricae
See also 584.3 Farinosae

.45 Juncineae Juncaceae Rush family
See also 584.23 Liliiflorae

.5 Principes Palmales Phoenicales Palmae Palmaceae Phoenicaceae Palm family
Bessey, Britton and Engler & Gilg giv as an order with only 1 family; Rendle classes under Spadiciflorae (584.64)

.6 **Nudiflorae Nudifloreae**

.61 Pandanales
All families of this group ar clast by Bessey under Alismatales (584.7)

.611 **Pandanaceae Pandaneae Hala family**

.612 **Sparganiaceae Bur-reed family**

.613 **Typhaceae Cat-tail family**
Changed from 584.63, as Britton, Engler & Gilg and Rendle elas this family under Pandanales (584.61)

.62 Synanthae Cyclanthales Cyclanthaceae

.64 Arales Spathiflorae Spadiciflorae

.65 **Araceae Arum family**
Aroideae, formerly on 584.64, is given by Engler & Gilg as a subfamily of Araceae

.68 **Lemnaceae Duckweed family**

584.7 **Apocarpeae Alismatales**

.71 Triuridales Triuridaceae Triurideae

.72 Helobiae Helobieae Naiadales Najadales Fluviales
See also 584.11 Hydrocharitaceae, included by Engler & Gilg and Rendle under Helobiae

.721 Alismatineae Alismaceae Alismataceae Water plantain family

.73 Butomineae Butomaceae Water poppy
Butomineae is given by Engler & Gilg as a suborder including Butomaceae and Hydrocharitaceae (584.11) Included by Rendle as a tribe, Butomeae, of Alismaceae (584.721)

.74 Potamogetonineae

.741 **Naiadaceae Najadaceae Naias or najas family**

.742 **Potamogetonaceae Pondweed or riverweed family**
Included by Britton as a genus, Potamogeton, in Naiadaceae (584.741)

.743 **Aponogetonaceae Lattice plant or lattice-leaf**

.744 **Scheuchzeriaceae Juncagineae Arrow gras family**

.8 **Glumaceae Graminales**

.81 Enantioblastae
Given by Engler & Gilg as a suborder of Farinosae (584.3) including, besides the 3 families following, Xyridaceae (584.36) and Mayacaceae (584.37)

.811 **Eriocaulaceae Eriocaulonaceae Eriocauleae Pipewort family**

.82 **Centrolepidaceae Centrolepidiaceae Centrolepideae**

.83 **Restiaceae Restionaceae**

.84 Glumiflorae

.841 **Cyperaceae Sedge family**

.9 **Gramineae Poaceae Gras family**
Because of size and importance of this family the tribes ar here given, clasification being founded on Häckel, as given in Engler & Prantl. See also 633.2 Grasses

.92 Spikelets 1-flowerd or rarely 2-flowerd

.922 Maydeae Maiz grasses

.923 Zoysieae

.924 Tristegineae

.925 Andropogoneae Blue-stem grasses

.926 Paniceae Panie "

.927 Oryzeae Riee "

.93 Spikelets 1- to indefinit-flowerd

.932 Phalarideae Canary grasses

.933 Agrostideae Redtop "

.934 Aveneae Oat "

.935 Chlorideae Gramma "

.936 Festuceae Fescue "

.937 Hordeae Hordeeae Tritieeae Wheat grasses

.938 Bambuseae Bamboos

.99 **Other monocotyledones Anomali**

585 Gymnospermae

.1 **Gnetales Joint fir order**

.11 **Gnetaceae Gnetum family (gnetum climbers)**
Gnetoideae

.12 **Tumboaceae Welwitschiaceae Tumboa or welwitschia family (welwitschia mirabilis)**
Tumbooideae, Tumboideae, Welwitschioideae

.13 **Ephedraceae Ephedra family**
Ephedroideae

.2 **Coniferae Strobilophyta Pinales**

.21 Coniferales Conifer or pine order
Rendle and Swingle uze this term insted of Coniferae (585.2)

.211 **Taxodiaceae Taxodineae Taxodium family (sequoia, bald cypress)**
Sciadopityoideae, Taxodioideae

.212 **Araucariaceae Araucarineae Old pine family**

.213 **Pinaceae Abietaceae Abietineae Pine (modern pine) family (pine, hemlock, spruce, larch, tamarak, fir)**
Britton and Rendle uze Pinaceae as equivalent to Bessey's Coniferales (585.21) Pinoideae, uzed by Bessey as a clas name, including all his Strobilophyta (585.2), is given by Engler & Prantl as a subfamily of Pinaceae, other subfamily being Abietoideae

.214 **Cupressaceae Cupressineae Cypress family**
Cupressoideae

.215 **Thuyopsidaceae Thuya or thuja family (white cedar, arbor vitae)**
Included by Engler & Prantl as a subfamily, Thujoideae, of Cupressaceae (585.214)

.216 **Juniperaceae Juniper family (juniper, red cedar)**
Included by Engler & Prantl as a subfamily, Juniperoideae, of Cupressaceae (585.214)

.22 Taxales Taxad order

.221 **Taxaceae Taxeae Yew family**
Britton and Rendle uze Taxaceae as equivalent to Bessey's Taxales (585.22)

.222 **Cephalotaxaceae**
Included by Bessey and Rendle in Taxaceae (Taxeae) (585.221)

.223 **Podocarpaceae Podocarpeae**
Pherosphaeroideae, Podocarpoideae

.224 **Phyllocladaceae**
Included by Engler & Prantl as a subfamily, Phyllocladoideae, of Podocarpaceae (585.223); included by Rendle in Taxeae (585.221)

.5 **Cordaitales**
Clas here Cordaitineae, given by Bessey as including Cordaitales, Gnetales (585.1) and Ginkgoales (585.7)

.51 **Cordaitaceae Cordaiteae**

.52 **Pityaceae**

585.7 **Ginkgoales Ginkgoaceae Salisburyaceae Maidenhair tree family (ginkgo)**
See also 634.572 Ginkgo

.9 **Cycadophyta**
Bessey includes, besides the orders given below, Cordaitineae (see 585.5)

.91 Cycadales Cycadineae

.911 **Cycadaceae Cycadeae Cycad family (cycas)**

.912 **Zamiaceae Zamieae Zamia family**
Included by Engler & Prantl as a subfamily, Zamioideae, of Cycadaceae (585.911)

.92 Bennettitales Bennettitincae

.921 **Caytoniaceae**

.922 **Nilssoniaceae**

.923 **Bennettitaceae Bennettiteae**

.95 Cycadofilicales Cycadofilices Pteridospermae Pteridospermeae Pteridospermales Pteridospermaphyta Seed ferns

.951 **Araucarioxyleae**

.952 **Protopityaceae Protopityeae**

.953 **Stenomyelaceae**

.954 **Calamopityaceae**

.955 **Megaloxylaceae**

.957 **Rhetinangiaceae**

.961 **Cycadoxylaceae Cycadoxyleae**

.962 **Cladoxylaceae Cladoxyleae**

.963 **Steloxylaceae**

.966 **Medullosaceae Medulloseae Medullosae**

.967 **Lyginodendraceae Lyginodendreae Lyginopterideae**

The following families ar clast by some authorities with Filicales (587.3) They hav caracteristics common to both Filicales and Cycadofilicales (585.95)

.971 **Megalopterides**

.972 **Glossopterides**

.973 **Taeniopterides**

.974 **Neuropterides**

.975 **Odontopterides**

.976 **Callipterides**

.977 **Alethopterides**

.978 **Pecopterides Pecopterideae**

.979 **Sphenopterides**

.981 **Archaeopterides**

586 Cryptogamia Seedless plants

587–588 **Archegoniatae Embryophyta asiphonogama Embryophyta zoidiogama**

587 Pteridophyta Fern plants Vascular cryptogams

.1 **Isoetales Isoetaceae Isoeteae Quillworts**

.2 **Articulatae Calamophyta Calamites**

.21 Equisetales Equisetineae

.211 Euequisetales Equisetaceae Equisetae Horse-tails or scouring rushes

.212 Calamariales Calamarineae Calamarieae Old calamites

1 **Calamariaceae**

2 **Protocalamariaceae Archaeocalamites**

.22 Pseudoborniales Pseudoborniaceae

.23 Cheirostrobales Cheirostrobaceae Cheirostrobeae

.24 Sphenophyllales Sphenophyllineae Sphenophyllaceae Wedge-leavd calamites

.3 **Filicales Filicinae Ferns**

Bessey's phylum Pteridophyta (see 587) is sinonimous with Filicales except that he includes also Isoetales (587.1)

.31 Leptosporangiatae Modern ferns

.311 Hydropteridineae Hydropterideae Marsiliales Salviniales Water ferns

1 **Salviniaceae Floating ferns**

2 **Marsiliaceae Pepperworts**

.312 Eufilicineae Filicaceae Land ferns

1 **Osmundaceae**

2 **Schizaeaceae**

3 **Gleicheniaceae**

4 **Dipteridaceae**

Included by Engler & Prantl as a subfamily, Dipteridinae, under Polypodiaceae (587.3127)

5 **Matoniaceae**

6 **Parkeriaceae Ceratopteridaceae**

7 **Polypodiaceae Common ferns**

According to Engler & Prantl the tribe Aspidieae, of this family, includes Dipteridinae (see 587.3124)

8 **Cyatheaceae**

9 **Hymenophyllaceae Filmy ferns**

Loxsomaceae is included by Engler & Prantl under Hymenophyllaceae

587.33 Eusporangiatae Old-fashiond ferns

Includes, according to Bessey, besides the 2 orders given below, Isoetales (587.1)

.331 Ophioglossales Ophioglossaceae Adder's tungs

.332 Marattiales Marattiaceae

.335 Botryopterideae Botryopteridaceae

.38 Fossil ferns of uncertain relationship

Psaronieae, Tieteaceae, Knorripterideae, Rhizomopterideae, Inversicatenales etc

.4 **Psilotales Psilotaceae**

Clast by Bessey and Clute under Lycopodiales (587.9)

.45 Psilophytales Psilophyton

A fossil fern ally probably related to Psilotales (587.4)

.9 **Lycopodiales Lycopodinae Lepidophyta Club mosses**

.91 Lycopodiales ligulatae Lepidodendrineae Higher club mosses

.911 Lepidophytineae Lepidodendrales Lepidodendreae

1 **Pleuromeiaceae**

2 **Sigillariaceae**

3 **Bothrodendraceae**

4 **Ulodendraceae**

Included by Engler & Prantl in Lepidodendraceae (587.9115)

5 **Lepidodendraceae**

.912 Selaginellineae Selaginellales Selaginellaceae Dwarf club mosses

.92 Lycopodiales eligulatae Lycopodineae Lower club mosses

.921 **Cyclostigmaceae**

.922 **Lycopodiaceae Common club mosses, ground pines**

588 Bryophyta Muscineae Mossworts

.1 **Sphagnales Sphagna Peat mosses Sphagnaceae Large bog mosses**

Included by Bessey and Engler & Gilg under Musci (588.2)

.2 **Musci Mosses**

.21 Bryales True mosses

.211 Polytrichinales

See also 588.214 Acrocarpi

1 **Polytrichales Polytrichaceae Haircaps**

2 **Dawsoniales Dawsoniaceae**

.212 Buxbaumiinales

See also 588.214 Acrocarpi

1 **Diphysciales Diphysciaceae Weberaceae**

2 **Buxbaumiales Buxbaumiaceae Humpback mosses**

.213 Eubryinales

.214 **Acrocarpi Top mosses**

1 Eubryales

11 Timmiineae (Leafy bristle mosses) Timmiaceae

12 Bartramiineae: Bartramiaceae, Catoscopiaceae (Catascopiaceae), Meeseaceae, Aulacomniaceae (Aulocomniaceae), Spirideutaceae

13 Hypnodendrineae Hypnodendraceae

14 Rhizogoniineae: Rhizogoniaceae, Calomniaceae, Mitteniaceae, Sorapillaceae, Eustichiaceae, Drepanophyllaceae

15 Bryineae (Wood mosses): Mniaceae, Leptostomaceae (Leptostomataceae), Bryaceae

2 Tetraphidiales (Tetraphidales) Georgiaceae

3 Schistostegiales Schistostegaceae

4 Funariales

41 Splachnineae: Splachnaceae (Petticoat mosses), Oedipodiaceae

42 Funariineae: Funariaceae (Bristle mosses), Ephemeraceae, Discelieaceae, Gigaspermaceae

5 Grimmiales Grimmiaceae

6 Pottiales

61 Pottiineae: Pottiaceae, Trichostomaceae (Trichostomoideae)

62 Encalyptineae Encalyptaceae

63 Syrrhopodontineae: Syrrhopodontaceae, Calymperaceae

7 Dicranales

71 Leucobryineae: Leucophanaceae (Leucophanoideae), Leucobryaceae (Cushion mosses)

72 Pleurophascineae Pleurophascaceae

73 Dicranineae: Dicnemonaceae, Dicranaceae (Turf mosses), Seligeraceae (Seligeriaceae), Ditrichaceae, Archidiaceae, Bryoxiphiaceae

8 Fissidentales Fissidentaceae

588.215 **Pleurocarpi Side mosses**

1 Hypnobryales

11 Hypnineae: Hylocomiaceae, Rhytidiaceae, Hypnaceae (Bog mosses), Sematophyllaceae, Plagiotheciaceae, Entodontaceae

12 Leskeineae: Brachytheciaceae, Amblystegiaceae, Thuidiaceae, Leskeaceae, Rhegmatodontaceae (Rhegmatodontoideae), Fabroniaceae, Theliaceae

2 Hookeriales

21 Hookeriineae: Hypopterygiaceae, Leucomiaceae, Symphyodontaceae, Hookeriaceae, Pilotrichaceae

22 Nematacineae Nemataceae (Nematocaceae)

3 Isobryales

31 Neckerineae: Echinodiaceae, Lembophyllaceae, Neckeraceae, Phyllogoniaceae

32 Leucodontineae: Meteoriaceae, Pterobryaceae, Myuriaceae, Trachypodaceae, Rutenbergiaceae, Prionodontaceae, Lepyrodontaceae, Ptychomniaceae, Cyrtopodaceae, Leucodontaceae, Cryphaceae, Hedwigiaceae

33 Fontinalineae: Climaciaceae (Tree mosses), Fontinalaceae (Brook mosses)

34 Rhacopilineae Rhacopilaceae

35 Orthotrichineae: Helicophyllaceae, Orthotrichaceae, Ptychomitriaceae, Erpodiaceae

.22 Andreaeales Andreaeaceae Black mosses, small mosses

.3 **Hepaticae Liverworts**

.31 Jungermanniales Scale mosses

.311 **Jungermanniaceae acrogynae**

.312 " **anacrogynae Metzgeriaceae**

.32 Anthocerotales Anthocerotaceae Hornworts

.33 Marchantiales Great liverworts

.331 **Ricciaceae**

Clas here Ricciales, given by Bessey as an order with only 1 family, Ricciaceae

.332 **Marchantiaceae**

Targionioideae, Marchantioideae

.333 **Corsiniaceae**

Included by Engler & Gilg as a subfamily, Corsinioideae of Marchantiaceae (588.332)

.4 **Charophyta Charales Stoneworts**

Some authorities clas Charophyta under Algae (589.3)

.41 **Characeae**

.42 **Nitellaceae**

Included by Engler & Gilg and Hirmir as a tribe, Nitelleae, of Characeae (588.41)

589 Thallophyta

.1 **Lichenes Lichens**

.11 Basidiolichenes

.111 Hymenolichenes

.112 Gasterolichenes

.15 Ascolichenes

.16 Pyrenocarpeae Pyrenolichenes Angiocarpae Lichens with coverd fruit, closed lichens

Mycoporaceae, Mastodiaceae, Pyrenotrichaceae, Xanthopyreniaceae, Pyrenidiaceae, Strigulaceae, Astrotheliaceae, Paratheliaceae, Trypetheliaceae, Phyllopyreniaceae, Pyrenulaceae, Pyrenothamniaceae (Pyrenothamnaceae), Dermatocarpaceae, Verrucariaceae, Epigloeaceae, Moriolaceae

.17 Gymnocarpeae Gymnocarpae Lichens with naked fruit

.171 **Cyclocarpineae Discolichenes Disk lichens**

Physciaceae, Buelliaceae, Theloschistaceae, Caloplacaceae, Usneaceae, Parmeliaceae, Lecanoraceae, Pertusariaceae, Acarosporaceae, Gyrophoraceae, Cladoniaceae, Phyllopsoraceae, Lecideaceae, Peltigeraceae, Stictaceae, Pannariaceae, Heppiaceae, Collemaceae (Collemataceae), Lichinaceae, Pyrenopsidaceae, Ephebaceae, Coenogoniaceae, Gyalectaceae, Ectolechiaceae, Diploschistaceae, Thelotremaceae (Thelotremataceae), Chrysothricaceae (Chrysotrichaceae), Byssolomaceae (Pilocarpaceae), Lecanactidaceae

.172 **Graphidineae Graphidales Slit lichens**

Roccellaceae, Dirinaceae, Chiodectonaceae, Graphidaceae, Arthoniaceae

.173 **Coniocarpineae Caliciales Powdery lichens**

Sphaerophoraceae, Cypheliaceae, Caliciaceae

.18 Gelatinosae Gelatinus lichens

.19 Byssaceae Filamentus "

589.2 **Eumycetes Carpomyceteae Fungi Mushrooms**

Terms Carposporeae (formerly assignd to 589.21 and 589.4), Oosporeae (589.24 and 589.5), Zygosporeae (589.27 and 589.6) and Zoosporeae (589.67) hav been discarded by best authorities for clasification purposes, but erly literature on those subjects is kept on the old numbers. For physiologic discussions see 581.32 Spores

.21 Basidiomycetes Basidiales Smuts, rusts, mushrooms

Carposporeae, see note under 589.2. Basidiomycetes changed from 589.22

.22 Eubasidii Eubasidiomycetes Basidiosporeae

.221 **Autobasidiomycetes Gasteromycetes Stinkhorn fungi, pufball, erth star**

3 Exobasidiineae Exobasidiales

Exobasidiaceae, Hypochnaceae

4 Daeryomyeetineae Daeryomyectaeeae

5 Phallineae Phallales Phalloideae Stinkhorn fungi, buzzard's nose

Phallaceae, Clathraceae

6 Hymenogastrineae Hymenogastrales Hymenogastereae Hymenogastraceae Subterranean fungi, false tubers

7 Lyeoperdineae Lycoperdales Lycoperdeae Pufballs, devil's snuf box, earth star

Lycoperdaceae, Tylostomataceae

8 Nidulariineae Nidulariales Nidularieae Bird's nest fungi

9 Selerodermatineae Selerodermatales Sclerodermeae Plectobasidiineae Hard pufballs

Tulostomataceae, Sphaerobolaceae, Calostomataceae, Sclerodermataceae, Podaxaceae

.222 Hymenomyeetineae Hymenomycetes Agaricales Mushrooms, toadstool fungi, fairy elubs

Tulasnellaceae, Corticiaceae, Thelephoraceae (lethery fungi), Clavariaceae (Clavarieae, coral fungi), Hydnaceae (Hydneae, hedgehog or prickly fungi), Polyporaceae (Polyporeae, tubebearing fungi), Agaricaceae(Agaricineae, gillbearing fungi, toadstools)

.223 **Protobasidiomycetes**

Removed from 589.224, which this group has been sharing with Hemibasidiomycetes

1 Aurieulariineae Aurieulariales Auricularieae Ear fungi, Jew's ear

Pilacraceae (Pilacrcaceae), Auriculariaceae. Changed from 589.2251

2 Tremellineae Tremellales Tremelleae Trembling or jelly fungi

Hyaloriaceae, Tremellaceae (Tremellinaceae), Sirobasidiaceae. Changed from 589.2252

.224 Hemibasidii Hemibasidiomycetes Teliosporeae Brand fungi

.225 **Uredinales Uredineae Rusts**

Melampsoraceae (Uredinaceae), Coleosporiaceae, Cronartiaceae, Schizosporaceae, Endophyllaceae, Pucciniaceae (Aecidiaceae)

.227 **Ustilaginales Smuts on corn, wheat, oats**

1 Ustilaginineae Ustilagineae Ustilaginaceae Smuts

2 Tilletiineae Tilletiaeeae Bunts

.229 Protomycetes Protomycetineae Protomycetaceae

589.23 Ascomycetes Ascosporeae Parasitic or ascus fungi

.231 **Tuberineae Tuberales Truffles or tubers**
Balsamiaceae, Eutuberaceae (Tuberaceae) See also 589.233 Euascales

.232 Laboulbeniales Laboulbeniincae Beetle fungi
Ceratomycetaceae, Laboulbeniaceae, Peyritschiellaceae

.233 Euascales Discomycetes Carpoascomycetes

1 **Helvellineae Helvellales**
Helvellaceae, Geoglossaceae, Rhizinaceae

2 **Pezizineae Pezizales Pezizeae Cup fungi**
Cyttariaceae, Cordieritidaceae, Cenangiaceae, Patellariaceae, Celidiaceae, Mollisiaceae, Helotiaceae, Ascobolaceae, Pezizaceae, Pyronemataceae

3 **Hysteriineae Hysteriales Slit fungi**
Acrospermaceae, Hysteriaceae, Ostropaceae, Dichaenaceae, Hypodermataceae

4 **Protocaliciineae Protocaliciaceae Powdery fungi**

5 **Phacidiineae Phacidiales Little cup fungi**
Phacidiaceae, Tryblidiaceae, Stictidaceae

.235 **Pyrenomycetineae Pyrenomycetales Pyrenomycetes Closed fungi: ergot, black knot (cherry, plum), black rot (grape)**

1 Sphaeriaceales: Xylariaceae, Melogrammataceae, Diatrypaceae, Melaneonidiaceae, Valsaceae, Clypeosphaeriaceae, Gnomoniaceae, Massariaceae, Pleosporaceae, Myeosphaerellaceae, Lophiostomataceae, Amphisphaeriaceae, Coryneliaceae, Cucurbitariaceae, Ceratostomataceae, Sphaeriaceae, Chaetomiaceae, Sordariaceae

3 Dothideaceales Dothideaceae (Dothidiaceae)

4 Hypoereaceales Hypoereaceae

5 **Perisporiineae Perisporales Perisporineae Mildews, powdery mildew**
Microthyriaceae, Perisporiaceae, Paropsidaceae, Erysibaceae (Erysiphaceae)

.236 Hemiascomycetes Hemiascales

1 **Saccharomycetineae Saccharomycetae Saccharomycetes Saccharomycetaceae Yeast fungi**

2 **Protoascineae**
Ascoideaceae, Endomycetaceae, Dipodascaceae, Eremascaceae

.237 **Protodiscineae Exoascineae Exoascales Exoasceae Pocket fungi: peach leaf curl, plum pocket, witch's broom (witch's besom, hexenbesen) of cherry etc**
Ascocorticiaceae, Taphrinaceae (Exoascaceae)

.238 **Plectascineae Gymnoasceae Aspergillales Little tubers**
Myriangiaceae, Terfeziaceae, Elaphomycetaceae, Trichocomaceae (Trichocomataceae), Onygenaceae, Aspergillaceae, Gymnoascaceae

589.24 Deuteromycetes Fungi imperfecti
Oosporeae, see note under 589.2

.241 Fungi imperfecti: conidic type

1 **Hyphomycetes Moniliales Molds: potato, peach, apricot scab**
Tuberculariaceae, Stilbaceae, Dematiaceae, Mucedinaceae

.242 **Sphaeropsidales Spot fungi: black fungi, cranberry scald**
Excipulaceae, Leptostromataceae, Nectrioideaceae (Nectrioidaceae), Sphaerioideaceae (Sphaerioidaceae, Sphaeropsidiaceae)

.243 **Melanconiales Melanconieae Melanconiaceae Black dot fungi**
Anthracnose of grape, raspberry and blackberry; butternut blight; ripe rot; root rot of tobacco, violet, lupin; brown rot of stone fruits

.244 Fungi imperfecti: mycelic type

.25 Phycomycetes Phycomyceteae Siphonomycetes Algaelike fungi, tube fungi

.251 Oomycetes Eg spore fungi

.252 **Peronosporineae Peronosporales Peronosporeae Downy mildews; blights on tobacco, grape vine, potato, cucumber**
Pythiaceae, Peronosporaceae (downy mildews), Albuginaceae (white rusts)

.26 **Saprolegniineae Saprolegniales Saprolegnieae Watermolds**
Leptomitaceae, Saprolegniaceae

.262 **Ancylistineae**
Ancylistaceae, Lagenidiaceae

.263 **Monoblepharidineae Monoblepharidaceae**

.27 Zygosporeae
See note under 589.2

.28 Zygomycetes Mucorales Lowest fungi, moldlike saprophytes

.281 **Mucorineae Black mold**
Piptocephalidaceae, Chaetocladiaceae, Mortierellaceae, Choanephoraceae, Mucoraceae

.282 **Entomophthorineae Entomophthorales Entomophthoreae Entomophthoraceae Fly fungi**

.283 **Endogonineae Endogonaceae**

.284 **Basidiobolineae Basidiobolaceae**

.285 **Chytridiineae Chytridineae Plasmodiophorales Phytomyxinae**
Plasmodiophoraceae, Synchytriaceae, Olpidiaceae, Rhizidiaceae (Chytridiaceae), Hypochytriaceae, Cladochytriaceae (Oochytriaceae) See also 589.29 Myxomycetes

.29 Phytosarcodina Myxothallophyta Myxomycetes Myxophyta Mycetozoa Slime mold
This whole group is claimd by both botanists and zoologists. The following may be clast in botany; other mycetozoa should be clast in zoology under 593.11. See also 589.285 Plasmodiophorales (Plasmodiophoraceae), Phytomyxinae

.292 Acrasiales Acraseae Sorophora
Dictyosteliaceae, Guttulinaceae

589.293 Myxogasteres Myxogastres Myxogastrales
Euplasmodida
1 **Ectosporeae Exosporeae Ceratiomyxaceae**
2 **Endosporeae**
Physaraceae, Didymiaceae, Spumariaceae, Brefeldiaceae, Stemonitaceae, Reticulariaceae, Trichiaceae, Cribrariaceae, Clathroptychiaceae, Liceaceae

.3 **Algae**
.4 Carposporeae
See note under 589.2
.41 Rhodophyceae Red algae
.411 Florideae Eufloridеae Red seaweeds
.412 **Ceramiales Sea mosses**
Delesseriaceae (Delessariaceae), Rhodomclaceae, Ceramiaceae
.413 **Rhodymeniales Rhodymeninae Higher red seaweeds**
Rhodymeniaceae, Sphaerococcaceae
.414 **Gigartinales Gigartininae Soft red seaweeds**
Rhodophyllidaceae, Gigartinaceae, Acrotylaceae
.415 **Cryptonemiales Hard red seaweeds**
Corallinaceae, Solenoporaceae, Squamariaceae, Rhizophyllidaceae (Rhiziphyllidaceae), Nemastomataceae (Nemastomaceae), Dumontiaceae, Grateloupiaceae, Gloiosiphoniaceae
.416 **Nemalionales Nemalioninae Lower red seaweeds**
Wrangeliaceae (Bonnemaisoniaceae) (clast by Bessey under Ceramiales, 589.412), Gelidiaceae, Chaetangiaceae, Thoreaceae, Helminthocladiaceae, Lemaneaceae
.42 Bangiales Bangioideae
Bangioideae is Bessey's name for this clas, which he divides into 2 orders, Rhodochaetales (including Compsopogonaceae and Rhodochaetaceae) and Bangiales (with only 1 family, Bangiaceae)
.45 Phaeophyceae Euphaeophyceae Brown algae
.451 **Dictyotales Dictyotineae Tetrasporineae Dictyotaceae**
.452 **Fucales Cyclosporeae Cyclosporinae Rockweeds**
Sargassaceae (Sargassum), Fucaceae (Fucus), Himanthaliaceae, Durvilleaceae (Durvillaeaceae)
.453 **Tilopteridales Phaeozoosporineae**
Choristocarpaceae (clast by Bessey under Ectocarpales, 589.457), Tilopteridaceae. Clas here Phaeosporeae, given by Bessey as a clas name including orders 589.453–.457
.454 **Laminariales**
Chordaceae, Laminariaceae, Prototaxitaceae. Clast by Bessey under Ectocarpales (589.457)
.455 **Cutleriales**
Splachnidiaceae, Cutleriaceae
.456 **Sphacelariales Sphacelariaceae**
Clast by Bessey under Ectocarpales (589.457)
.457 **Ectocarpales Kelps**
Giffordiaceae, Hydroclathraceae, Asperococcaceae (Striariaceae, Myriotrichiaceae), Dictyosiphonaceae, Arthrocladiaceae, Scytosiphonaceae, Punctariaceae, Sporochnaceae, Desmarestiaceae, Encoeliaceae, Spermatochnaceae (Stilophoraceae), Elachistaceae, Myrionemataceae (Ralfsiaceae), Corynophlaeaceae, Mesogloeaceae (Chordariaceae), Ectocarpaceae

589.47 Chlorophyceae Euchlorophyceae Isokontae
Green algae
.471 Siphonophyceae Siphoneae Tube algae
.472 **Siphonales Vaucherioideae Codiales Lower tube algae, green felts**
2 Vaucheriaceae
3 Codiaceae
4 Phyllosiphonaceae
5 Derbesiaceae
6 Caulerpaceae
7 Bryopsidaceae Sea ferns
Clas here Bryopsidoideae, given by Bessey as a clas name for higher tube algae
.473 **Siphonocladales Siphonocladeae**
2 Sphaeropleaceae
Clas here Sphaeropleales, given by West as an order under Ulotrichales (589.474) with only 1 family, Sphaeropleaceae
3 Cladophoraceae
Clas here Cladophorales, given by Bessey and West as an order in which Bessey includes Cladophoraceae and Sphaeropleaceae (589.4732) and classes under Vaucherioideae (589.472), while West includes only 1 family, Cladophoraceae, and classes under Ulotrichales (589.474)
4 Dasycladaceae
Clas here Dasycladales, given by Bessey as an order including Dasycladaceae etc
5 Siphonocladaceae
6 Valoniaceae Large bladder algae
Clas here Valoniales, given by Bessey as an order including Valoniaceae etc
474 Ulotrichales Confervales Confervoidcae
2 **Chaetophorales**
22 Oedogoniaceae
Clas here Oedogoniales, given by West as an order with only 1 family, Oedogoniaceae
23 Cylindrocapsaceae
24 Coleochaetaceae Coleochaeteae
Clas here Coleochaetales, given by Bessey as an order with only 1 family, Coleochaetaceae
25 Aphanochaetaceae Herposteiraceae
26 Chaetopeltidaceae
27 Trentepohliaceae Chroolepidaceae Wittrockiellaceae
28 Chaetophoraceae Microthamniaceae
3 **Eu-ulotrichales**
32 Blastosporaceae Prasiolaceae
Clas here Prasiolales, given by West, and Schizogoniales, given by Bessey, as an order with only 1 family, Prasiolaceae
33 Microsporaceae
Clas here Microsporales, given by Bessey as an order with only 1 family, Microsporaceae
34 Ulotrichaceae
35 Ulvaceae
Clas here Ulvales, given by Bessey as an order with only 1 family, Ulvaceae

589.475 Protococcales Protococcoideae Green slimes
2 **Euprotococcales Chlorococcales**
22 Autosporinae: Coelastraceae, Dictyosphaeriaceae, Selenastraceae, Oocystaceae, Chlorellaceae, Eremosphaeraceae, Protothecaceae
23 Zoosporinae: Hydrodictyaceae, Protosiphonaceae, Pleurococcaceae, Protococcaceae (Chlorococcaceae), Chlorosphaeraceae, Rhodochytriaceae
3 **Volvocales**
32 Tetrasporales: Tetrasporaceae, Myurococcaceae, Palmellaceae (Palmellales)
33 Chlorodendrales Chlorodendraceae
34 Chlamydomonadales (Coenobiales): Volvocaceae (Sphaerellaceae, volvox), Phacotaceae, Hyalovolvocaceae, Chlamydomonadaceae (eudorina, pandorina), Polyblepharidaceae
.48 Heterokontae Heterocontae Yellow-green algae
.482 **Heterosiphonales**
Botrydiaceae (Hydrogastraceae) Little bladder algae, Geosiphonaceae
.483 **Heterotrichales**
Monociliaceae, Tribonemaceae
.484 **Heterococcales**
Ophiocytiaceae, Harpochytriaceae, Chlorotheciaceae, Chlorobotrydaceae
.485 **Heterochloridales**
2 Heterocapsales Botryococcaceae
3 Mischococcales
4 Chloramoebales Heterochloridaceae
.5 Oosporeae
See note under 589.2
.6 Zygophyceae Conjugate algae
Zygosporeae, see note under 589.2
.61 Conjugatae Conjugateae Euconjugatae
.612 **Zygnematales Zygnemales Pond scum**
Zygnemataceae (Zygnemaceae, zygnema), Spirogyraceae (spirogyra), Mesocarpaceae, Mougeotiaceae, Gonatozygaceae
.613 **Desmidiales Placoderm desmids**
Desmidiaceae, Cosmariaceae (Cosmarieae), Closteriaceae (Closterieae, Penicae)
.614 **Mesotaeniales Mesotaeniaceae Saccoderm desmids**
.62 Bacillariophyta Bacillarioideae Bacillariales Diatomales Diatomeae Diatoms
.622 **Centricae Eupodiscales Cryptoraphideae Round diatoms**
2 Biddulphioideae: Rutilariaceae, Anauliaceae, Euodiaceae, Biddulphiaceae, Chaetocerotaceae
3 Solenioideae (Solenoideae): Soleniaceae, Rhizosoleniaceae
4 Discoideae: Eupodiscaceae, Actinodiscaceae, Coscinodiscaceae, Melosiraceae

589.623 **Pennatae Naviculales Raphideae Pseudoraphideae Flat diatoms**
2 Surirelloidcae Surirellaceae
3 Nitzschioideae: Bacillariaceae, Nitzschiaceae
4 Naviculoideae: Cymbellaceae, Gomphonemaceae, Naviculaceae
5 Achnanthoideae Achnanthaceae
6 Fragilarioideae: Eunotiaceae, Fragilariaceae, Diatomaceae, Meridionaceae, Tabellariaceae
.67 Zoosporeae
See note under 589.2
.7 **Protophyta Protista Schizophyta**
.8 Chlorophyllaceae Schizophyceae Myxophyceae Cyanophyceae Phycochromaceae Archiplastideae Containing chlorophyl, slime algae, blue-green or fission algae
.82 **Coccogonales Coccogoneae Chroococcales Chroococcaceae**
.83 **Hormogonales Hormogoneales Hormogoneae**
Stigonemataceae (Sirosiphonaceae), Rivulariaceae, Camptotrichaceae, Nostocaceae, Scytonemataceae, Oscillatoriaceae (Lyngbyaceae)
.84 **Chamaesiphonales**
Chamaesiphonaceae, Pleurocapsaceae
.85 **Holoplastideae Glaucocystales Glaucocystaceae**
.9 Achlorophyllaceae Lacking chlorophyl
.91 Saccharomycetes Yeast
Preferably clast in 589.2361
.95 Schizomycetes Bacteriales Fission fungi, bacteria, microbes Bacteriology
.952 **Thiobacteria Thiobacteriales**
Rhodobacteriaceae, Beggiatoaceae, Achromatiaceae
.953 **Eubacteria Eubacteriales**
Myxobacteriaceae (Myxobacteriales), Phycobacteriaceae (Chlamydobacteriaceae, Chlamydobacteriales), Actinomycetaceae (Actinomycetales), Mycobacteriaceae, Bacteriaceae, Spirillaceae, Coccaceae, Nitrobacteriaceae
.958 **Special applications of bacteriology**
In general libraries best clast with subject, e.g. Soil bacteriology 631.46; but may be kept together here by dividing like main clasification, e.g. Agricultural bacteriology 589.95863
.97 Flagellae
Groups given here ar claimd by both botanists and zoologists. Botanic discussions may be clast here and zoologic under 593.16, or, either number may, as preferd, be chosen to include all the material
972 Silicoflagellatae Dichtyochidae
2 **Siphonotestales Dichtyochaceae**
3 **Stereotestales Ebriaceae**

589.973 Dinoflagellatae Peridinales Peridiniales Peridineae Peridinieae Dinophyceae Cilioflagellatae

See also in zoology 593.17 Ciliata, Cilioflagellata

2 **Diniferidea Deniferina**

22 Peridinioidae Peridiniaceae

23 Gymnodinioidae

232 Blastodiniidae

233 Pouchetiidae

234 Noctilucidae

235 Polykrikidae Polykrikos

236 Gymnodiniidae Gymnodiniaceae

237 Protodiniferidae

3 **Adiniferidea Adinida Adinina**

32 Thecatoidae Prorocentricae Prorocentraceae, prorocentrum

33 Athecatoidae Exuviaella

5 **Doutful dinoflagellatae**

Amphilothioideae, Cystoflagellata (Rhynchoflagellata), Cystodiniidae

.974 Flagellatae Phytoflagellatae Euflagellatae

2 **Euglenales Euglenineae**

Peranemataceae (Peranemaceae), Astasiaceae, Euglenaceae (euglena)

3 **Chloromonadales Chloromonadaceae Vacuolaria**

4 **Cryptophyceae**

42 Cryptococcales

43 Phaeocapsales

44 Cryptomonadales: Nephroselmidaceae, Cryptomonadaceae

5 **Chrysophyceae**

52 Rhizochrysidales

53 Chrysotrichales Phaeothamnionaceae

54 Chrysosphaerales

55 Chrysomonadales

552 Chrysocapsales: Hydruraceae, Chrysocapsaceae, Coccolithophoraceae

553 Ochromonadales Ochromonadaceae

554 Hymenomonadales: Euhymenomonadaceae (Hymenomonadaceae), Isochrysidaceae

555 Chromulinales: Mallomonadaceae, Euchromulinaceae (Chromulinaceae)

6 **Protomastigales**

Protomastigaceae, Tetramitaceae, Trimastigaceae, Amphimonadaceae, Bodonaceae, Monadaceae, Phalansteriaceae, Craspedomonadaceae, Bicoecaceae, Oicomonadaceae

7 **Diastomatales Diastomataceae**

8 **Pantostomatales Rhizoflagellatae**

Rhizomastigaceae, Holomastigaceae

590 Zoology

590.1 Philosofy, classification .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, zoologic gardens, aquaria, museums .8 Collectiv works .9 History

591 Physiologic zoology

Divided where needed like .581

.1 **Physiology**

.11 Circulation

.12 Respiration

.121 Nature

.122 Dermal

.123 Aquivascular

.125 Branchial

.126 Tracheal

.127 Pulmonary

.129 Exhalation of aqueous vapor

.13 Nutrition

.131 Acquisition of food

.132 Digestion of food

.133 Assimilation of food

.134 Growth

.135 Development

.136 Repair of waste

.137 Production of organic material

.138 Conditions of nutritiv activity

.139 Longevity, vitality

.14 Secretion and excretion

.141 Mucous and sebaceous

.142 Sericeous

.143 Digestiv: salivary, gastric, pancreatic

.144 Protectiv and attractiv

Odoriferous, sweet, luminous, electric, etc.

.145 Poisonous, gall formation, caprification

.146 Mammary, spermatic

.147 Lacrimal

.148 Biliary

.149 Urinary and fecal

.15 Variation **See also 575.2 Evolution**

.151 Polymorfic

.152 Geografic

.153 Heterofagic

.154 Polygoneutic

.155 Mimetic

.156 Sexual

.157 Colorational

.158 Hybrids

.159 Monstrosities

591.16 Generation
.161 Abiogenesis
.162 Parthenogenesis, neuters
.163 Metagenesis, pedogenesis, nurses
.165 Fission and gemmation
.166 Fecundation
.167 Hermaphrodites
.168 Viviparity
.169 Superfetation
.17 Histogenesis
.171 Development of sperm cells
.172 Development of germ cells, micropyle
.179 Reparation of wounds
.18 Nervous functions and sensation
.19 Physiologic chemistry
.2 Pathology
.3 Embryology
.33 Development of embryo
.34 Metamorphosis, larva, pupa, molting
.35 Hypermetamorphosis
.36 Production of sexes
See also 575.9 Origin of sexes
.4 Morfology Comparativ anatomy Homologies
.41 Circulatory organs
.42 Respiratory organs
.43 Nutritory organs
.44 Secretory and excretory organs
.45
.46 Generatory organs
.47 Motory organs and integumentary system
Skelcton, dermoskeleton
.48 Nervous system
.49 Regional anatomy
.5 Habits and behavior
Including popular books; animal stories, except fiction
.51 Instinct Reason
.52 Abode Migration
.53 Food
.54 Seasons Hibernation
.55 Sociability
.56 Philoprogenitivness Breeding
.57 Means of protection Fascination
.58
.59 Other habits

591.6 Economic
.61 Usefulness
.62 In nature
.63 As food and medicin for man
.64 In chemistry and manufactures
.65 Noxiousness
.66 Offensiv animals
.67 Animals causing diseases
.68 Injuring vegetable and animal products and inorganic [substances
.69 Injuring living plants and animals Parasites
.7 Organografy Descriptiv anatomy
Subdivided like 591.4 Morfology
.8 Histology See also 578.9 Microscopic zoology
.9 Geografic distribution of animals
Subdivided like 581.9

592 Invertebrates

593 Protozoans Radiates

.1 Protozoans
.11 Rhizopoda
.12 Foraminifera
.13 Heliozoa
.14 Radiolaria Polycystina
.15 Infusoria
.16 Flagellata
.17 Ciliata
.18
.19 Gregarinidæ
.2 Radiates
.3 Cœlenterata Acalepha (old use of term, now limited to 593.73)
.4 Sponges Porifera Spongia
.5 Cnidaria
.6 **Actinozoa Polyps Corals and sea anemones**
.61 **Rugosa Tetracorolla**
.62 **Alcyonaria Octocorolla**
.63 **Zoantharia Hexacorolla**
.64 Antipatharia
.65 Actinaria
.66 Madreporaria
.7 **Hydrozoa**
.71 Hydromedusæ
.72 Siphonophora
.73 Acalepha
.74 Calycozoa
.76 Marsupialida
.77 Discophora Jelly fish

593.8 **Ctenophora Jelly fish**
.9 **Echinodermata**
.91 Crinoidea, sea lilies
.92 Asteroidea, star fish
.93 Stelleridea
.94 Ophiuridea
.95 Echinoidea, sea urchins
.96 Holothuroidea, sea cucumbers
.97 Pedata
.98 Apoda
.99 **Enteropneusta**

594 Mollusks

.1 **Lamellibranchiata Bivalvs**
.2 **Scaphopoda Toothshells**
.3 **Gastropoda Univalvs: snails, slugs** See also 632.643 Pests
.31 Amphineura Chitons
.32 Prosobranchia
.324 Aspidobranchia
.329 Pectinibranchia
.34 Heteropoda
.35 Opisthobranchia Sea slug, sea lemon
.36 Nudibranchia
.37 Tectibranchia Sea hare, bubble shell
.38 Pulmonata Snails
.4 **Pteropoda Wingd shells**
.5 **Cephalopoda Squids and cuttlefish**
.51 Tetrabranchia
.52 Nautilidae Nautilus
.53 Ammonites
.55 Dibranchia
.56 Octopoda Octopus, cuttlefish, squid
.58 Decapoda Ten-armd cephalopod, cuttlebone
.6 **Molluscoidea**
.7 **Bryozoa (Polyzoa) Sea mats**
.71 Gymnolaemata Sea mats
.711 Cyclostoma
.712 Ctenostomata
.713 Chilostomata
.72 Phylactolaemata Fresh water polyzoans
.73 Pterobranchia
.74 Entoprocta
.8 **Brachiopoda Lamp shells**

594.9 **Tunicata Sea grapes**
.91 Ascidia Sea squirt, sea pear, sea peach, sea potato
.92 **Copelatæ Taild ascidian**
.93 **Monascidiæ Sea squirt**
.94 **Synascidiæ Composit ascidian**
.95 **Pyrosoma Firebodies**
.96 Salpae Salp
.97 Doliolum Doliolid

595 Articulates

.1 **Vermes Worms** See also 632.651 Pests
.11 Helminthes Parasitic worms
.12 Platyhelminthes Flatworms
.121 Cestoda Tapeworm
.122 Trematoda Fluke
.123 Turbellarii Black planarian
.124 Nemertini Nemertean worm
.13 Nematodes Trichina, thred worm, pin worm
.131 Gordiacea Hairworm
.133 Acanthocephali Barbd-headed worm
.135 Chaetognathi
.14 Annelida Jointed worms
.15 Hirudinea Leeches
.16 Oligochaeta Earthworm, lugworm
.17 Polychaeta
.174 Gephyrea Spoon worm
.176 Phoronis Actinotrocha worm
.178 Myzostomida
.18 Rotifera Wheel animalcules
.185 Echinoderes
.188 Gastrotricha
.189 Dinophilus
.19 Orthonectida
.195 Dicyemida
.2 **Arthropoda**
.3 Crustacea
.31 Entomostraca Cyclops, shrimps, etc.
.315 **Pantopoda Sea spider**
.32 **Phyllopoda Leaf-footed crustaceans**
.323 Branchiopoda
.324 Cladocera Water flea
.33 **Ostracoda**
.34 **Copepoda** Copepod, cyclops
.345 Copepoda parasita Fish lice
.35 **Cirripedia Barnacles, etc.**

595.36 Malacostraca Sandbugs, crabs, lobsters, etc.
.37 **Arthrostraca**
.371 Amphipoda Sand flea
.372 Isopoda Sow bug, wood lice
.38 **Thoracostraca Crab, shrimp, prawn, lobster**
.381 Cumacea
.382 Stomapoda Sea mantle, glas crab
.383 Schizopoda Opossum shrimp
.384 Decapoda Lobster, crab, crayfish
1 Macrura Lobster, crayfish
2 Brachyura Crab
.39 Gigantostraca
.391 **Merostomata**
.392 **Xiphosura Horseshoe crab**
.393 **Trilobita Trilobites**
.4 Arachnida Spiders Scorpions Mites See also 632.654 Pests
.41 Linguatulida Tongue worm
.412 Tardigrada Water bear
.42 Acarina Mites
.43 Phalangida Harvest spider
.44 Araneida True spider
.45 Pedipalpi Whip scorpion
.46 Scorpiones Scorpion
.47 Pseudoscorpiones False scorpion
.48 Solifugae Weasel-spider
.5 Onychophora
.6 Myriopoda Centiped, etc. See also 632.656 Pests
.61 Chilognatha Milliped
.62 Chilopoda Centiped
.63 Symphyla
.64 Pauropoda
.7 Insecta Hexapoda Insects See also 632.7 Pests
.709 Geografic distribution
Divide like 930-999
.71 Thysanura Bristletails, springtails, etc.
.711 Campodeidae
.713 Poduridae Snow flea, springtail
.715 Lepismatidae Bristletail
.72 Orthoptera Grashoppers, etc.
.721 Dermaptera Earwig
.722 Cursoria Cockroach
.723 Gressoria Walking insect
.724 Phasmidae Walking stick, leaf insect, walking leaf
.725 Mantidae Praying insect, camel insect
.726 Saltatoria Leaping or jumping insects
.727 Acrididae Locust
.728 Locustidae Green grashopper, katydid
.729 Gryllidae Cricket

595.73 Pseudoneuroptera Dragon-flies, white ants, etc.
.731 Thysanoptera Thrip
.732 Corrodentia Booklice, white ant, death watch
.733 Odonata Dragonfly, darning needle, mosquito hawk
.734 Ephemeridae Mayfly, dayfly, shadfly
.735 Perlidae Stone fly
.74 Neuroptera Caddis flies, etc.
.741 Planipennia Ant lion, scorpion fly
.742 Megaloptera Ant lion
.743 Sialidae Hill grammite fly
.744 Panorpidae Scorpion fly
.745 Trichoptera Caddis fly
.746 Strepsiptera
.75 Hemiptera Rhynchota Bugs, etc.
751 Aptera Wingless insects
2 **Pediculidae True lice, crab lice, body lice, head lice**
4 **Mallophaga Bird lice**
.752 Homoptera
2 **Phytophthires (Phytophtires) Stenorhyncha (Sternorhyncha)**
3 Monomera Coccidae Scale-insects, coccids
4 Dimera
5 Aphidae Aphids, plant-lice
6 Aleurodidae Moth-blight insects
7 Psyllidae (Psylloidae) Flea-lice
.753 **Auchenoryncha Trimera**
1 Cicadidae Cicada
2 Fulgoridae Lantern-flies
3 Cercopidae Tricephoridae Froghoppers, cuckoo-spits, spittle-insects
4 Membracidae Tree-hoppers
5 Jassidae Jassids, leaf-hoppers
.754 Heteroptera Squash bug, stink bug, etc.
.76 Coleoptera Beetles
.761 Pentamera
.762 **Adephaga Whirligig, tiger beetle, water beetle, etc.**
.763 **Clavicornia Burying beetle, larder beetle**
.764 **Lamellicornia Dung beetle, June beetle, rose chafer**
.765 **Sternoxia Click beetle, wireworm**
.766 **Malacodermata Ship-timber beetle, powder-post beetle**
.767 Heteromera Blister beetle
.768 Tetramera Weevil, leaf beetle
.769 Trimera Lady-bird beetle
.77 Diptera Flies, etc.
.771 Nematocera Gnat, midge, mosquito, gall midge fly
.772 Brachycera Gadfly, botfly, fleshfly, aphis-fly
.774 Pupipara Lousefly, bee lice
.775 Aphaniptera Flea
.78 Lepidoptera Butterflies, moths
.781 Heterocera Moths
.782 Microlepidoptera Small lepidoptera: clothes moth, codling moth

595.783 Macrolepidoptera Large lepidoptera
.785 **Geometrina Mesuring worm, canker worm**
.786 **Noctuina Owlet moth**
.787 **Bombycina Silkworm, gipsy moth, tent caterpillar**
.788 **Sphingina Sphinx moth**
.789 Rhopalocera Butterflies
.79 Hymenoptera Bees, wasps, etc.
.791 Terebrantia Boring hymenoptera
.792 **Entomophaga Boring insects**
.793 **Phytophaga Sawfly, horntail, gallfly**
.794 Aculeata Stinging hymenoptera
.795 **Chrysididae Cuckoo wasp**
.796 **Formicidae Ant**
.797 **Fossoria Digger wasp**
.798 **Vespidae True wasp**
.799 **Apidae Bee**

596 Vertebrates

597 Fishes Pisces

.09 Geografic distribution
Divide like 930–999, uzing .092 for oceans, further subdivided like 551.46 and .47; e. g. fishes of Gulf of Mexico 597.0923
.1 **Pharyngobranchii Lancelet**
Leptocardii, Amphioxus, Acraniata
.2 **Marsipobranchii Lampreys**
Cyclostomes
.3 **Elasmobranchii Sharklike fishes**
.31 Selachii Plagiostomes Notidani True sharks
.35 Tectospondyle Ray Rajidae Skate
.38 Holocephali Chimera
.4 **Ganoidei Sturgeons, garpikes, etc. (covered with hard bony plates)**
.41 Amiidae Bowfin
.44 Chondrostei Acipenseridae Sturgeon
.46 Crossopterygii Fringe-fin
.47 Euganoides Heterocerques Lepidostei Garpike
.48 Dipneusti Dipnoi Lung fish
.5 **Teleostei True bony fishes**
.53 Lophobranchii Pipe fish, sea horse
.54 Plectognathi File fish, globe fish, box fish
.55 Physostomi Salmon, herring, carp
.56 Anacanthini Cod, halibut, flounder
.57 Pharyngognathi Wrasses, parrot fish
.58 Acanthopterygii Perch, bass, mackerel
.6 **Batrachia (Amphibia)**
.7 **Ophiomorpha**
.8 **Anura Toads, frogs**
.9 **Urodela Salamanders**

598 Reptils Birds

.1 **Reptils**
.11 Lacertilia Lizards
.12 Ophidia Snakes
.121 Nonvenomus snakes
.126 Venomus snakes
.13 Chelonia Turtles
.14 Crocodilia Crocodiles
.15 Ichthyopterygia
.16 Sauropterygia
.17 Anomodontia
.18 Pterosauria
.19 Dinosauria
.2 **Birds Aves**
.29 Geografic distribution
Divide like 930–999
.3 Grallatores Waders
.31 Fulicariae
Coot, rail, sungrebe
.32 Alectorides
Seriema, sun bittern, trumpeter, kagu, crane, courlan
.33 Limicolae Shore birds
Plover, snipe, sand piper, stilt, oyster catcher
.34 Herodiones
Heron, bittern, stork, ibis, spoonbill, flamingo, umbrette
.4 Natatores Swimmers
.41 Anseres Lamellirostral swimmers
Duck, goose, swan, merganser, screamer, sheldrake
.42 Longipennes Long-wingd swimmers
Jaeger, skua, gull, tern, skimmer, albatross, petrel
.43 Steganopodes Totipalmate swimmers
Tropic bird, cormorant, pelican, darter, gannet, man-o'war bird
.44 Pygopodes Diving birds
Grebe, loon, auk, murre, puffin, penguin
.5 Cursores Ratitæ Runners
.51 Struthionidae Ostrich
.52 Rheidae Rhea
.53 Casuariidae Cassowary Dromaeidae Emu
.54 Apterygidae Kiwi Dinornithidae Moa
.6 Rasores Scratchers
.61 Gallinae Gallinaceus birds
True fowl, grouse, quail, hoatzin, fesant, turkey
.65 Columbae
Pigeon, dodo

598.7 Scansores Climbers
.71 Psittacidae
Parrot, macaw, parakeet, cockatoo, lory, kaka, nestor
.72 Picidae
Woodpecker, pufbird, barbet, jacamar, honey guide, wryneck, toucan
.73 Trogonidae Trogon
.74 Cuculidae Cuckoo
.8 Insessores Perchers
.81 Acromyodi Singing passerin birds
Waxwing, thrush, finch, swallow, warbler, flycatcher, o riole, bobolink, sparrow
.86 Mesomyodi Non-singing passerin birds
Crow, raven, ant bird, broadbill
.89 Picariae Non-passerin birds
Kingfisher, roller, swift, humming bird
.9 Raptores Birds of prey
.91 Falconidae Falcon family Vulturidae Vulture
Hawk, falcon, eagle, buzzard
.97 Night raptores
Strigidae: owl

599 Mammals Mammalia

.1 Monotremata Duckbild platypus, duckmole
.2 Marsupialia Kangaroos, opossums
.3 Placentalia Monodelphia
.31 Edentata Armadillo, anteater, sloth
.32 Rodentia Rat, rabbit, woodchuck
.33 Insectivora Shrew, mole
.4 Cheiroptera Bats
.5 Cetacea Sirenia Whales, etc.
.51 Mysticete Balaenoid whale, whalebone whale
.53 Denticete, Odontocete Tootht whale
.55 Sirenia
.6 Subungulata
.61 Proboscidea
Elefant, mammoth, mastodon
.615 Barytheria Barypoda
.62 Hyracoidea
Hyrax, cony
.625 Embrithopoda
.63 Notoungulata Toxodonta
.632 Typotheria
.64 Homalodotheria Homalodontotheria Entelonychia
.642 Astrapotheria
.643 Toxodontia
.65 Litopterna
.655 Pyrotheria
.66 Amblypoda Short-footed ungulates
.67 Condylarthra Slender ungulates

599.7 Ungulata Carnivora
See also 636 Domestic animals
.71 Ungulata Hooft mammals
.72 Perissodactyla Od-toed ungulates
.722 Chelodactyla Normal perissodactyls
.723 Hippoidea
.724 Palaeotheriidae
.725 Equidae Monochela Solidipeda Solid ungula
Equines
Horse, ass, zebra, quagga etc
.726 Titanotheroidea Titanotheria
2 Palaeosyopidae
4 Titanotheriidae Brontotheriidae
.727 Tapiroidea
2 Tapiridae Tapirs
4 Lophiodontidae
.728 Rhinocerotoidea
2 Hyracodontidae
4 Rhinocerotidae Rhinoceros
.729 Ancylopoda Ancylodactyla Chalicotheria Chalicotheroidea Clawd perissodactyls
.73 Artiodactyla Even-toed ungulates
Bisulca, Dichela
.732 Nonruminantia
.733 Selenobunodontia
2 Anthracotheriidae
3 Dichobunidae
4 Trigonolestidae
.734 Suina Bunodontia Swine
2 Cebochoeridae
3 Leptochoeridae
4 Suidae Pigs
5 Dicotylidae Tagassuidae
Peccary
6 Entelodontidae Elothcriidae
Giant pigs
7 Hippopotamidae Hippopotamus
.735 Ruminantia Selenodontia Ruminants
2 Oreodonta
3 Anoplotheriidae
4 Tylopoda Cameloidea
Camel, dromedary, llama, alpaca, vicuña etc
5 Tragulina Traguloidea
52 Gelocidae
54 Hypertragulidae
56 Tragulidae
Chevrotain or mouse-deer
6 Pecora
7 Cervicornia Antlerd or solid-hornd ruminants
72 **Giraffidae**
Giraf, okapi
74 **Cervidae Deer**
76 **Merycodontidae Deer-antelope**
8 Cavicornia Hollow-hornd ruminants
82 **Antilocapridae**
Prongbuck or pronghorn antelope
84 **Bovidae Bovines**
Ox, sheep, goat, antelope, gazel, chamois etc

599.74 Carnivora Flesh-eating mammals, beasts of prey
.743 Creodonta Primitiv carnivora
.744 Fissipedia Land carnivora
2 **Aeluroidea Ailuroidea Herpestoidea**
22 Viverridae
Civet, genet, linsang etc
23 Nandiniidae
African palm or tree civet
24 Herpestidae
Mongoose
25 Cryptoproctidae
Foussa or fossa
26 Protelidae
Aard wolf
27 Hyaenidae
Hyena
28 Felidae Cats
4 **Arctoidea**
42 Canidae
Dog, wolf, fox, jackal etc
43 Procyonidae
Raccoon, coati, kinkajou, cacomistle, bassarisk etc
44 Ailuridae Aeluridae
Common panda
45 Ailuropodidae Aeluropodidae
Pandarctos, great or giant panda
46 Ursidae Bears
47 Mustelidae
472 Mustelinae
Weasel, marten, sable, mink, stoat, ermin, polecat, ferret, wolverine etc
474 Melinae
Badger, ratel etc
475 Mephitinae
Skunk etc
478 Lutrinae Otters
.745 Pinnipedia Fin- or paddle-footed carnivora, aquatic or marine carnivora
.746 **Otariidae Eard seals**
Fur seal, sea lion, sea bear
.747 **Odobaenidae Odobenidae**
Walrus
.748 **Phocidae Earless or true seals**
.8 Quadrumana Apes Primates
.81 Prosimiae Lemur
.82 Pitheciinae: couxio Cynopithecidae: monkey, baboon Catarrhina: gorilla, chimpanzee, orang Platyrrhini: American monkey
.88 Anthropomorpha Anthropoid ape
.9 Bimana Man See also 573 Nat. hist. of man; 610 Medicin

Useful Arts Applied Science

600 Useful arts Applied science
601 Filosofy Theories, etc.
602 Compends, outlines
603 Dictionaries, cyclopedias
604 Essays, lectures, addresses
605 Periodicals, magazines, reviews
606 Societies Fairs Exhibitions
Special exhibitions go with their topics. This is general only
607 Education Schools of technology
Divided like 940–999
608 Patents Inventions
609 History of useful arts in general
For its history, see each special department

610 Medicin

For full list of form divisions see Table 2 following Relativ index. Note special sub divisions below which may be applied as needed thruout 611–619
.7 Study and teaching .71 Medical schools .714 Medical education for special classes: women etc. .73 Training schools for nurses Nursing Regular form divisions may be added here as needed; e.g. 610.7307 Study and teaching of nursing, 610.7309 History of nursing .74 Medical museums .75 Diagnosis .751 Pulse .752 Tongue .753 Eye, skin, etc. .754 Auscultation, percussion .755 Thermometry .756 Chemistry Urin analysis .757 Microscopy, radioscopy, etc. .758 Pathologic anatomy .759 Postmortem examination E.g. 616.0756 Chemic diagnosis of disease, 616.241075 Diagnosis of pneumonia

611 Anatomy

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory
.012 Teratology
.013 Embryology
.014 Anthropologic anatomy
.016 Paleontologic "
.018 Histology
.019 Comparativ anatomy
.1 Circulatory system
.2 Respiratory "
.3 Digestiv "
.4 Glandular and lymfatic system
.6 Genito-urinary system
.7 Motor and integumentary system
.8 Nervous system
.9 Regional anatomy

.01 **Theory**
.0111 Notion, definition, value
.0112 Classification, division
.0114 Terminology

.012 **Teratology Anomalies**
Divided like 617.3 Orthopedic surgery

.013 **Ontogeny Embryology**
See also physiology, 612.6 Reproduction and development

1 Germinativ cells
11 **Sperm**
12 Spermatogenesis See also 611.63 Male genital organs
15 **Ovum**
16 Ovogenesis See also 611.65 Female genital organs
17 Maturation Corpus luteum
2 Copulation Fecundation Fertilization
See also Fecundation, in botany 581.166; in zoology 591.166
3 Germ layers
31 **Segmentation Cleavage Blastula**
314 Blastula
32 **Gastrula**
33 **Primitiv streak**
34 **Blastopore** Primitiv mouth
35 **Archenteron** Primitiv gut
36 **Neurenteric canal**
37 **Entoderm, entoblast, hypoblast or endoderm**
38 **Ectoderm, epiblast or ectoblast**
39 **Mesoderm or mesoblast**
395 Mesenchyme
.0134 Entodermic, entoblastic or hypoblastic organs
41 **Notochord**
5 Ectodermic, epiblastic or ectoblastic organs
Epidermal layer
51 **Neural furrows, folds and canal or medullary plates**
See also 611.8 Nervous system

611.0136 Mesodermic organs
61 **Protovertebrae Mesoblastic somites, or primitiv vertebrae**
64 **Somatopleure, body wall, or musculocutaneous plate**
Outer lamella of lateral plates
65 **Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate**
Inner lamella of lateral plates
66 **Coelom, pleuroperitoneal or body cavity**
See also 611.389 Coelom
68 **Blood or primitiv vessel wall**
See also 611.0185 Histology of blood
7 External form of embryo
8 Fetal appendages
81 **Vitellin sac**
32 **Allantois**
83 **Amnion**
835 Amniotic fluid
84 **Chorion**
85 **Placenta** Umbilic cord
9 Experimental embryology

.014 **Anthropologic anatomy**
See also 572 Anthropology

.016 **Paleontologic anatomy**
See also 560 Paleontology

.018 **Histology**
Microscopic structure of organs
1 Cells Cytology
See also 576.3 Cytology For special cells see tissues to which they belong
11 **Protoplasm**
13 **Nucleus**
15 **Cell division** See also 611.01331
16 **Centrosome**
18 **Cilia Cellular membrane**
2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'supporting tissues'
21 **Connectiv tissue cells**
22 **Connectiv tissue fibers**
23 **Ground substance or matrix**
24 **Reticular and adenoid tissue**
Areolar or interstitial tissue Reticulum
25 **Mucous or gelatinous tissue Mesenchyme**
See also embryology, 611.013395 Mesenchyme
26 **Adipose or fat tissue**
27 **Elastic or yellow fibrous tissue**
28 **Fibrous or white fibrous tissue**
29 **Pigment and pigment cells**
3 Cartilaginous tissue
True or hyalin cartilage, cartilage cells or chondroblasts For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828
34 Perichondrium

611.0184 Bone or osseous tissue
41 **Bone cells**
Osteoblasts Osteoclasts Howship's lacunae Myeloplaques of Robin
43 **Ground substance or matrix**
Spongiosum, spongy substance, or cancellated or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals
Volkmann's canals
44 **Periosteum**
Osteogenetic layer or cells; fibers of Sharpey
46 **Bone marrow or medulla**
5 Blood
See also physiology, 612.11 Blood
For sperm, see 611.01311 and 612.616
57 **Lymf**
See also 612.42 Lymfatic system
6 Muscular tissue Sarcoplasm
61 **Smooth, unstriped, unstriated or involuntary muscle**
62 **Striped, striated or voluntary muscle**
Sarcolemma
63 **Cardiac muscle**
64 Histology of muscular contraction
7 Epithelial tissue
72 **Glandular system**
73 **Mucous membranes**
74 **Serous " Endothelia**
8 Nervous tissue
81 **General structure Tectology Neurone**
Regeneration
82 **Nerv cells**
Nissl's chromophilic bodies
83 **Prolongations and nerv fibers**
Cylinder-axis process; cylinder axis. Appendixes, varicosities
833 Neurilemma Schwann's sheath
834 Myelin Ranvier's nodes Medullary sheath
835 Adventitious sheath, perineurium Epineurium
Endoneurium
837 Dendrites
84 **Neuroglia** Ependymal cells, amyloids
86 **Terminations**
861 Motor terminations
866 Sensory "
.019 **Comparison with anatomy of lower animals**
Usually better clast in 591.4

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs

611.07 Teaching Methods
.072 Laboratories Dissection
.077 Pedagogic methods
.078 Instruments Apparatus
.08 Polygrafy
.09 History
.1 **Circulatory system**
.11 Pericardium
.12 Hart
.122 Left hart
.123 Right hart
.124 **Ventricles**
2 Right 5 Left
.125 **Auricles**
2 Right 5 Left
.126 **Endocardium**
3 **Valvs**
4 Auriculoventricular valvs
42 Mitral or bicuspid valvs
46 Tricuspid valvs
5 Valvs of aorta and of pulmonary artery
Sinuses of Valsalva
52 Aortic valvs
56 Pulmonary or semilunar valvs
6 Valvs of right auricle
2 Eustachian 5 Coronary
.127 **Myocardium**
.13 Arteries
.131 **Pulmonary artery**
2 Right branch 5 Left branch
.132 **Aorta**
1 Aortic arch Ascending aorta
2 Coronary arteries
2 Right 5 Left
5 Innominate artery
.133 **Carotid arteries**
1 Common carotid
2 External "
21 Superior thyroid
22 Lingual
23 Facial, or external maxillary
24 Ascending pharyngeal
25 Posterior auricular
26 Occipital
27 Superficial temporal
28 Internal maxillary
281 Sphenopalatin arteries
289 Middle or great meningeal
3 Internal carotid
32 **Ophthalmic artery**
33 **Cerebral arteries, anterior and middle**
For posterior cerebral artery see 611.1349

611.134 Subclavian arteries
1 Axillary
Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex
2 Brachial or humeral
Superior and inferior profunda, nutrient, anastomotica magna, muscular
3 Forearm arteries
31 Radial
35 Ulnar
4 Hand arteries
5 Internal mammary Superior epigastric
6 Costocervical trunk
7 Thyrocervical trunk
8 Posterior, or dorsal scapular, transversa colli
9 Vertebral Basilar, posterior cerebral, circle of Willis

.135 Thoracic aorta and branches
1 Parietal branches
4 Intercostal "
Subcostal, diaframatic, vas aberrans
5 Visceral branches
Bronchial, esofageal, pericardial, mediastinal

136 Abdominal aorta and branches
1 Inferior frenic
2 Lumbar
3 Middle sacral; caudal
4 Celiac axis
Celiac mesenteric, umbilic mesenteric or omphalomesenteric
41 Hepatic
Pyloric, gastroduodenal, superior pancreaticoduodenal, right gastro-epiploic, cystic
42 Splenic, lienalis
Pancreatic, vasa brevia, left gastro-epiploic
43 Left gastric, gastric, or coronary gastric
5 Mesenteric
51 Superior mesenteric
Rami intestini tenuis, or branches of small intestin; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches
52 Inferior mesenteric
Left colic, sigmoid, superior hemorrhoidal
6 Middle suprarenal
7 Renal
8 Spermatic
9 Ovarian

.137 Iliac arteries
1 Common iliac
2 Hypogastric, or internal iliac
3 Parietal branches
4 Lateral sacral
5 Obturator

611.1376 Gluteal
61 Superior gluteal
65 Inferior gluteal Sciatic
7 Visceral branches
71 Umbilic, superior vesical
72 Inferior vesical and deferential
73 Uterin and vaginal
74 Middle hemorrhoidal
75 Internal pudic
8 External iliac artery
81 Inferior epigastric, or deep epigastric
82 Deep circumflex iliac
83 Femoral
84 Deep femoral, profunda femoris
2 External circumflex 5 Internal circumflex
85 Arteria genu suprema, or anastomotica magna
86 Popliteal
87 Anterior tibial
9 Tibiofibular trunk, truncus tibioperoneus
91 Posterior tibial
92 Peroneal
93 Arteries of foot
94 Dorsalis pedis
Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
95 Plantar

.14 Veins
.141 Pulmonary
.142 Cardiac or venae cordis
.143 Subintestinal, or fetal portal vein
.144 Cardinal
.145 Superior vena cava
Innominate veins Veins of neck
1 Internal jugular vein
Thyroid veins
11 Cerebral veins Sinuses of dura mater
13 Emissary vein
15 Superior ofthalmic
16 Inferior "
17 Facial
2 External jugular
3 Posterior external jugular and vertebral
4 Subclavian and axillary
41 Deep veins of upper extremity
46 Superficial veins of upper extremity
2 Basilic 5 Cephalic
6 Azygos
7 Spinal veins

611.146 **Inferior vena cava**
1 Lumbar veins
2 Renal "
3 Suprarenal "
4 Hepatic "
5 Inferior frenic
6 Spermatic
Pampiniform or spermatic plexus
7 Ovarian
.147 **Iliac veins**
1 Hypogastric or internal iliac
Hemorrhoidal plexus
2 External iliac
3 Femoral Popliteal
33 Long, or internal saphenous
37 Tibial veins
38 Short, or external saphenous
39 Veins of foot
.149 **Portal vein**
1 Superior mesenteric
2 Inferior "
3 Ventricular coronary, gastric, or venae gastricae Pyloric
4 Splenic, or lienalis
5 Cystic
7 Fetal hepatic veins Omphalomesenteric
Ductus venosus Aranzii, or sinus venosus, large vein passing directly thru fetal liver
8 Umbilic
.15 Capillaries
.2 **Respiratory system**
.21 Nose
See also 611.86 Organs of smell
.211 **External nose**
.22 Larynx
.221 **Cartilages**
Epiglottis, thyroid, arytenoid, cuneiform, cornicular
.223 False vocal cords
.224 Ventricles
.225 **Cavity of larynx** **Glottis**
True vocal cords Rima glottidis or chink of glottis
.227 Ligaments
.229 **Muscles of larynx**
.23 Trachea and bronchi
.231 **Trachea**
.233 **Bronchi**
See also 611.24 below
.24 Lungs, or pulmones
.25 Pleura
.26 Diafram
.27 Mediastinum
.28 Gills
See comparativ anatomy, 591.42 Respiratory organs
.29 Other organs, including air bladder, swimming bladder See 591.42

611.3 **Digestiv system**
.31 Mouth, buccal cavity or cavum oris
.313 **Tung**
5 Papillae
.314 **Teeth**
.315 **Palate, palatum, or roof of mouth** **Soft palate, or velum pendulum palati** **Uvula**
.316 **Salivary and other glands of mouth**
2 Submaxillary and sublingual glands
3 Parotid glands Stenson's duct
.317 **Lips**
.318 **Cheeks**
.32 Pharynx Esofagus
.321 **Pharynx**
.322 **Tonsils**
.323 Faucial tonsils
.324 Pharyngeal or Luschka's tonsils
.325 Lingual, buccal or 4th tonsil
.326 Other tonsils: laryngeal, nasal
.327 **Topografy or regions of pharynx**
1 Nasal or epipharynx
2 Oral, buccal, or meso pharynx
3 Laryngeal or hypo pharynx
4 Back
5 Sides
.329 **Esofagus**
1 Cervical 2 Thoracic section 3 Abdominal section, including diaframatic
.33 Stomach
Gastric glands: true, oxyntic or peptic; pyloric; cardiac
.333 Cardia
.334 Pylorus
.335 Greater curvature, or lower convex surface
.336 Lesser " " upper concave "
.34 Intestin
.341 **Small intestin**
2 Meckel's diverticulum
3 Peyer's patches, or tonsillae intestinales
4 Plicae circulares
5 Glands of Lieberkühn and solitary glands
.342 Duodenum Brünner's glands
.343 Jejunum
.344 Ileum
.345 **Cecum**
1 Ileocecal valv
2 Vermiform appendix
.347 **Large intestin**
Including cecum Appendices epiploicae
.348 Colon
2 Ascending
3 Transverse
4 Descending
.349 Sigmoid flexure
.35 Rectum Anus
.351 Rectum Houston's or rectal valve
.352 Anus
.353 Perineum See also 611.96

611.36 Liver
.361 Bile ducts Bile capillaries or canaliculi
.362 Hepatic duct
.366 Cystic duct Gall bladder
.367 Common bile duct, or ductus communis choledicus
Process and ampulla of Vater
.37 Pancreas
.373 Pancreatic duct, or canal of Wirsung
.375 Duct of Santorini
.376 Glandular portion
.377 Interalveolar cell-ilets, intertubular cell masses, ilands of Langerhans
.38 Peritoneum Mesentery Omentum Coelom
.381 Peritoneum
2 Parietal 5 Visceral
.382 Omentum, epiploon
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
.383 Mesentery
Transverse and sigmoid mesocolon; mesorectum; mesoappendix
.384 Retroperitoneal fossae
.389 Coelom or pleuroperitoneal cavity
.39 Adipose bodies
.4 Glandular and lymfatic system
Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general
.41 Spleen
.415 Malpighian bodies
.418 Capsule of spleen
.42 Lymfatic vessels or lymfatics and capillaries
For lymfatics of an organ or tissue, see name of organ or tissue
Lymfatic spac::
.421 Lymfatics by region
1 Hed
2 Face
3 Neck
4 Thorax
5 Abdomen
6 Pelvic region
7 Upper extremity
2 Arm 4 Forearm 6 Hand
8 Lower extremity
2 Thigh 4 Leg 6 Foot
9 Tail
.423 Receptaculum chyli or cistern of Pecquet
.424 Thoracic duct (left)
.425 Right lymfatic duct
.426 Lacteals
5 Villi
.43 Thymus
.435 Accessory thymus
.44 Thyroid gland
.445 Accessory or aberrent thyroids
.447 Parathyroids
.45 Suprarenal capsules or bodies
Accessory suprarenal capsules

61: 46 Lymfatic glands
.461 Glands of hed
.462 " " face
Internal maxillary Submental
.463 Glands of neck
1 Suboccipital or occipital
2 Mastoid, retroauricular or postauricular
6 Retropharyngeal
7 Cervical or jugular
8 Subclavian
.464 Glands of thorax
1 Diaframatic
2 Mammary lymf
3 Intercostal
4 Mediastinal
.465 Abdominal lymf glands
1 Iliac and hypogastric: sacral, lumbar
2 Abdomino-aortic
21 Juxta-aortic
22 Preaortic: gastric, splenic, hepatic
23 Retroaortic
4 Glands of small intestin: mesenteric
6 Glands of large intestin: colic, rectal
.467 Lymf glands of upper extremity
1 Axillary
2 Epitrochleal or supratrochleal and other glands
5 Pectoral
.468 Lymf glands of lower extremity
1 Inguinal
2 Femoral
3 Popliteal
4 Anterior tibial
.47 Carotid gland or body
.48 Coccygeal gland
.6 Genito-urinary system Brests
.61 Kidneys
Class here urinary organs in general
.615 Uriniferous tubules
.617 Ureter
.618 Pronephros
.619 Mesonephros
.62 Bladder Urethra
.621 Bladder
3 Urethral openings
.622 Ligaments: urachus
For pedicle of allantois see also embryology, 611.01388
.623 Urethra
For female urethra see 611.674
1 Prostatic part
Verumontanum or caput gallinaginis
Sinus pocularis or uterus masculinus
2 Membranous part
3 Spongy, cavernous or penial part
4 Lacunae Littré's glands
.627 Bulbo-urethral or Cowper's glands
.629 Urogenital sinus

611.63 Male genital organs
.631 Testicles or testes
1 Seminiferous tubules
Straight tubules, tubuli rectl or vasa recta; coni vasculosi or vasa efferentia
3 Tunics of testes: vaginalis, albuginea, vasculosa
5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
.632 Epididymis
.633 Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldès
.634 Vas deferens
.635 Ejaculatory ducts
.636 Seminal vesicles
.637 Prostate
.638 Scrotum
4 Dartos
.639 Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia
.64 Penis
.641 Root
.642 Body Prepuce
.643 Glans penis, or acorn
.644 Meatus
.645 Corpora cavernosa
.646 Corpus spongiosum
.647 Bulb of urethra
.65 Female genital organs Adnexa
.651 Ovaries
1 Medullary substance Stroma
2 Graafian follicles
Capsule of ovum, membrana granulosa, discus proligerus
3 Cortical layer
.652 Corpus luteum or corpora lutea
See also embryology 611.01317
.656 Fallopian tubes
.66 Uterus
.662 Endometrium
.664 Cornua
.665 Body or parenchyma
.666 Neck, cervix
.667 Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36
2 Broad or lateral
3 Round Canal of Nuck
4 Uterosacral and uterolumbar Pouch of Douglas
Posterior ligaments
6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
7 Paroophoron
669 Müller's duct Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in comparison with human organs
.67 Vagina Vulva
.671 Vagina
.672 Hymen Vestibulum
.673 Vulva
1 Mons veneris 2 Labia majora 3 Labia minora
.674 Female urethra
.675 Clitoris Bulbus vestibuli
.677 Bartholins, or vulvo-vaginal glands
.69 Brests
.691 Nipple and areola Glands of Montgomery
.692 Acini, acinous glands
.693 Galactoforous or lactiferous ducts

611.7 Motor and integumentary systems
.71 Osteology Bones Skeleton
.711 Spinal colum
1 Cervical vertebrae
2 Atlas
3 Axis or epistropheus
5 Thoracic or dorsal vertebrae
6 Lumbar vertebrae
7 Sacrum or sacral vertebrae
8 Coccyx
.712 Ribs Thorax
5 Costal cartilages
.713 Sternum or brest bone
Manubrium; gladiolus; xiphoid or ensiform
.714 Bones of hed Skull
1 Calvaria or cerebral cranium
Sutures, fontanelles, supernumerary or Wormian bones
3 Base of cranium
6 Orbits
7 Nasal cavity Inferior conchae
.715 Cranium, cranial bones
1 Occipital
2 Sphenoid
3 Temporal
4 Parietal
5 Frontal
6 Ethmoid
7 Lacrimal
8 Nasal
9 Vomer
.716 Bones of face or visceral cranium
1 Maxillary, upper jaw or superior maxillary
2 Palate
3 Malar or zygomatic
4 Mandible, lower jaw or inferior maxillary
41 Alveolar limbus
43 Ramus of mandible
5 Hyoid
6 Skeleton branchiae Better clast in 591.47
.717 Bones of upper extremity
1 Scapula, shoulder blade
Shoulder girdle as a whole Acromion
2 Clavicle or collar bone
3 Coracoid process
4 Humerus
5 Radius
6 Ulna
7 Carpus, carpal bones or wrist bones
71 Scaphoid or navicular
72 Semilunar, or os lunatum
73 Cuneiform, or os triquetrum
74 Pisiform
75 Trapezium, or os multangulum majus
76 Trapezoid or " " minus
77 Os magnum, or os capitatum
78 Unciform or hook or os hamatum
79 Central
8 Metacarpus, metacarpal bones

611.7179 Phalanges of hand
91 Basilar or proximal phalanges
93 Middle phalanges
95 Ungual or distal phalanges
99 Sesamoid
.718 **Bones of lower extremity**
For pelvis see 611.96
1 Hip bone, or os coxae or innominatum
Acetabulum or cotyloid cavity
11 Ilium
12 Ischium
13 Pubis
4 Femur
45 Patella See also 611.7283 Knee joint and 611.983 Knee
5 Tibia
6 Fibula
7 Tarsus
71 Astragalus, ankle bone, or talus
73 Calcaneum, heel, or os calcis
75 Cuboid
76 Scaphoid or navicular
78 Cuneiform or wedge bones
Internal or first, middle or second, external or third cuneiform
8 Metatarsal bones
9 Phalanges of foot
91 Basilar or proximal phalanges
93 Middle or second "
95 Ungual or third "
99 Sesamoid bones
.72 Ligaments Joints
.721 **Articulations of vertebrae and of cranium**
1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbosacral
7 Sacrococcygeal
8 Coccygeal
.722 **Costovertebral articulations**
.723 **Costosternal, costochondral, chondrosternal, interchondral, intersternal**
.724 **Jaw joint, temporomandibular, temporomaxillary or mandible joint**
.727 **Articulations of upper extremity**
1 Sternoclavicular joint and costoclavicular or rhomboid ligament
2 Articulations of shoulder
21 Shoulder joint
24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments
3 Elbow joint
31 Humeroulnar joint
33 Humeroradial joint
34 Superior radioulnar or radioulnaris proximalis
4 Wrist joint
41 Inferior or distal radioulnar joint
44 Radiocarpal

611.7275 Intercarpal articulation
54 Middle carpal joints
6 Carpometacarpal articulations
7 Intermetacarpal "
8 Metacarpophalangeal "
9 Phalangeal or finger joints
.728 **Articulations of lower extremity**
1 Articulations of pelvis
Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
2 Hip joint, or articulo coxae
Iliofemoral, Y or Bigelow's ligament; ligamentum teres
3 Knee joint
31 Crucial or femorotibial ligaments
33 Semilunar fibrocartilages
34 Anterior or ligamentum patellae
38 Tibiofibular ligaments
4 Ankle joint
41 Inferior tibiofibular joint
44 Tibiotarsal ligaments
5 Intertarsal ligaments
51 Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments
53 Calcaneocuboid ligaments
54 Mediotarsal articulations
55 Cuboidcuneiform "
56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations
58 Intercuneiform articulations
6 Tarsometatarsal articulations
7 Intermetatarsal "
8 Metatarsophalangeal "
9 Toe joints
.729 **Classes of joints**
2 Synarthrosis or fixt joint
4 Amphiarthrosis or mixt joint
6 Diarthrosis or movable joint
61 Arthrodia or gliding joint
62 Condylarthrosis or knuckle joint
63 Enarthrosis or ball and socket joint
64 Ginglymus or hinge joint
65 Trochoid or pivot joint
.73 Muscular system Myology
.731 **Dorsal muscles**
1 Spinohumeral or humerospinal muscles
11 Trapezius
12 Latissimus dorsi
13 Rhomboid
14 Levator scapulae
2 Spinocostal or serrati posteriores
3 Spinodorsal
Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
31 Iliocostal
36 Longissimus dorsi
4 Splenius and complexus

611.7315 Spinalis dorsi
6 Transversospinales
61 Semispinalis
65 Multifidus
68 Rotatores
7 Breves spinae
71 Interspinales
76 Intertransversarii
8 Oblique muscles of hed
9 Recti capitis posterior and lateralis

·732 Muscles of hed

See also 611.7318–9 and 611.7337–8

1 Platysma myoides
2 Occipitofrontalis or epicranial
3 Muscles of nose
Pyramidalis nasi, compressor nasi, compressor narium minor, depressor alae nasi or myrtiform, dilatores nasi
4 Muscles of ear Attrahens, attollens, retrahens
5 Palpebral and orbital muscles of eye
Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii; levator palpebrae; levator palpebrae superioris; tensor tarsi
See also 611.8461
6 Buccal muscles
Buccinator, orbicularis oris, levator anguli oris, levatores labii superioris, levator labii superioris alaeque nasi, zygomatic, levator labii inferioris, levator menti, depressor labii inferioris or quadratus menti; depressor angulae oris or triangularis menti; risorius, or Santorini's muscle
7 Muscles aiding mastication and deglutition
71 Masseter
72 Temporal
73 Pterygoid
75 Muscles of palate and pharynx
76 Palate
Levator palati, tensor palati, azygos uvulae, palatoglossus, palatopharyngeus, salpingopharyngeus
78 Pharynx
Inferior, superior and middle constrictors, stylopharyngeus

·733 Muscles of neck

1 Sterno-cleido-mastoid
2 " hyoid
3 Omohyoid
4 Sternothyroid
5 Thyrohyoid
6 Longus colli
7 Rectus capitis anticus major, or longus capitis
8 Rectus capitis anticus minor, or rectus capitis anterior
For rectus capitis lateralis see 611.7319
9 Scaleni: anticus, medius and posticus

·734 Hyoid muscles

Depressors of lower jaw or elevators of hyoid. For tung see 611.313
1 Digastric
4 Stylohyoid
6 Mylohyoid
8 Geniohyoid

611.735 Thoracic muscles

1 Pectoralis major
2 " minor
3 Subclavius
4 Levatores costarum
5 Serratus magnus or serratus anterior
6 Intercostal
7 Subcostal
8 Transversus thoracis or triangularis sterni

·736 Abdominal and coccygeal muscles

1 Rectus abdominis
2 Pyramidalis abdominis
3 Oblique abdominal
6 Cremaster
7 Transversalis or transversus abdominis
8 Quadratus lumborum
9 Coccygeal

·737 Muscles of upper extremity

1 Shoulder or axillary
11 Deltoid
12 Supraspinatus
13 Infraspinatus
14 Teres minor
15 Teres major
16 Subscapular
2 Arm
21 Biceps brachii, or biceps flexor cubiti
22 Coracobrachialis
23 Brachialis (anticus)
24 Triceps brachii, or triceps extensor cubiti
25 Anconeus
3 Forearm
4 **Pronator muscles**
41 Pronator radii teres
45 " quadratus
5 **Flexors of forearm**
51 Flexor carpi radialis
52 Palmaris longus
53 Flexor carpi ulnaris
54 " digitorum sublimis
55 " " profundus
56 " pollicis longus
6 **Extensors and supinators**
61 Brachioradialis
62 Extensor carpi radialis longus
63 " " " brevis
64 " " ulnaris
65 Extensors of fingers, or extensores digitorum
66 Supinator
67 Abductor pollicis longus
68 Short and long extensors of thum, or extensores pollicis brevis et longus
69 Extensor of index finger, or extensor indicis proprius
7 Muscles of hand
71 Lumbricales
72 Palmaris brevis
73 Short abductor of thum, or opponens pollicis
Short flexor of thum, or flexor brevis pollicis. Adductor pollicis
76 Muscles of little finger
Abductor digiti quinti (or minimi) brevis; opponens digiti quinti short flexor of 5th or little finger, or flexor brevis digiti minimi
79 Interosseous muscles

611.738 **Muscles of lower extremity**
1 Hip and nates
11 Iliopsoas
12 Iliacus
13 Psoas major and minor
14 Gluteal
15 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
16 Piriformis
17 Obturator internus
18 Gemelli or gemini
19 Quadratus femoris
2 Thigh muscles
21 Sartorius
22 Quadriceps femoris or quadriceps extensor femoris
Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius
225 Articularis genu, or subcrureus
23 Pectineus
24 Adductors: longus, brevis, magnus and minimus
25 Gracilis
26 Obturator externus
27 Biceps femoris or biceps flexor cruris
28 Semitendinosus
29 Semimembranosus
3 Leg
4 **Anterior muscles**
41 Anterior tibial or tibialis anticus
42 Extensor digitorum longus
43 " hallucis " or proprius
46 Peronaeus tertius
5 **Other muscles of leg**
51 Peronaeus longus
52 " brevis
53 Gastrocnemius
54 Soleus, triceps surae
55 Plantaris
56 Popliteus
57 Posterior tibial
58 Flexor digitorum longus
59 " hallucis "
7 Muscles of foot
8 **Back of foot**
Extensor brevis digitorum
Sole of foot or plantar region
Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles
.739 Electric organs Better clast in comparativ anatomy
.74 Tendons Fasciae
May be divided like 611.73; e. g. Achilles tendon 611.74854
.75 Bursae Sheaths of tendons
.751 **Hed**
.752 **Neck**
.753 **Back**
.754 **Shoulder**
.757 **Upper extremity**
.758 **Lower "**
.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue

611.77 Skin Glands of skin
.771 Cuticle, scarf skin or epidermis
Horny and Malpighian layers
.772 Glands of skin
.773 Sebaceous
.774 Sudoriferous or swet
.775 Ciliary glands
.776 Circumanal "
.777 Ceruminous "
.778 Corium, cutis vera, true skin or dermis
Reticular and papillary layers
5 Pigmentation
.779 Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus
.78 Hair, nails, scales, fethers, etc.
For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in comparativ anatomy 591.47
.781 Hair
.785 Scales
.786 Nails
.787 Fethers
.788 Horns
.8 Nervous system Sense organs
.81 Encephalon Brain
Mesurement Weight
.811 **General structure of brain and cerebrospinal axis**
.812 **Localizations**
.813 **Telencephalon, or endbrain Prosencephalon, or forebrain Hemisferes**
Longitudinal and transverse fissure
1 Pallium, brain mantle or cerebral cortex
11 **Frontal lobe**
Broca's convolutions
12 **Parietal lobe Central fissure, sulcus centralis, or Rolando's groove**
Opercula insulae
13 **Temporal or temporosphenoid lobe Fissure of Sylvius, or fissura cerebri lateralis**
14 **Limbic lobe Gyrus fornicatus**
Hippocampal gyre, or gyrus hippocampi Callosal gyre Dentate gyre, or fascia dentata hippocampi Fasciola Fimbria, taenia fornicis or taenia hippocampi Hippocampus major or cornu ammonis Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis Callosomarginal fissure Amygdala, almond nucleus, or amygdaloid tubercle
15 **Occipital lobe**
Occipital or parieto-occipital fissure
16 **Paracentral gyre or lobule**
17 **Cuneus Calcarin fissure**
18 **Precuneus, or quadrate lobe**
19 **Insula, iland of Reil, central lobe, or gyri operti**
2 Striatum, striate body, or corpus striatum
Basal ganglion of hemisfere
21 **Caudatum, taild nucleus, or nucleus caudatus**
22 **Lenticula, lenticular nucleus, or nucleus lentiformis**
Globus pallidus, or pallidum, and putamen
23 **Claustrum**
25 **Tenia, taenia semicircularis, stria terminalis or corneae**

611.8133 Rhinencephalon or rhinencefal
Olfactory bulb tract, substantia perforata anterior, precribrum, etc.
Broca's area, or parolfactoria
7 Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule
8 Paraceles or lateral ventricles
9 Callosum or corpus callosum Fornix
Septum pellucidum or lucidum, or septum Cavum septi pellucidi, 5th ventricle or pseudocele

.814 Diencephalon, diencefal, thalamencephalon or interbrain
1 Hypothalamus or subthalamic tegmental region
Nucleus of Luys or nucleus hypothalamicus
Postcommissure or posterior commissure
2 Corpora albicantia, albicans, or corpus mammillare
Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris
3 Hypophysis
Hypophysis cerebri, pituitary body or somatic brain
Tuber or tuber cinereum Infundibulum
4 Optic tract Optic chiasm or commissure
5 Epithalamus Pinea, pineal body, conarium or epiphysis Habenula, habena, or pedunculus conarii
6 Geniculate bodies, or geniculum Metathalamus
7 Thalamus or optic thalamus
Thalamic radiation: ansa peduncularis, ansa lenticularis
For Nissl's bodies see 611.01882
8 Third ventricle, or diacele
Porta or foramen of Monro, or foramen interventriculare

.815 Mesencephalon, midbrain or mesencefal
3 Quadrigeminum
Corpora or tubercula quadrigemina Quadrigeminal arms
4 Pedunculi or crura cerebri, crura or crus
41 Substantia nigra (Sömmering) or intercalatum
See also nucleus of Luys 611.8141
42 Foot of peduncle, basis or pes pedunculi, or crusta
43 Tegmentum
44 Red nucleus, nucleus ruber, or rubrum
5 Nuclei of oculomoto and trochlear nervs
6 Aqueduct of Sylvius, aqueductus cerebri, or mesocele

.816 Isthmus rhombencephali
3 Valv of Vieussens, or superior medullary velum
4 Superior cerebellar peduncles
Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum
7 Lemniscus: mesial and lateral fillets

611.817 Metencephalon or epencephalon, epencefal or hindbrain
Pons (Varolii)
1 Cerebellum
11 Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
13 Cerebellar centers of gray matter Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.
15 White substance of cerebellum Arbor vitae
3 Pons Varolii Tegument For reticula see 611.8226
4 Nuclei of trigeminus system
41 Nucleus motorius or motor nucleus of 5th nerv
42 Nucleus of spinal tract or sensory nucleus of 5th nerv
5 Nucleus or nidus of abducent nerv
6 " " " " facial nerv
68 Salivary nucleus
7 Cochlear nidi or nucleus of cochlear nerv
Ventral root of 8th nerv
76 Trapezium or trapezoid body
77 Nucleus of superior olivary body
78 Acoustic striae, striae acusticae or medullares
8 Vestibular nidi or nucleus of vestibular nerv
Dorsal root of 8th nerv

.818 Myelencephalon, medulla, bulb or afterbrain, postoblongata or medulla oblongata
1 Pyramids Pyramidal decussation
2 Dorsal colum, posterior fibers, or funiculi dorsales
Arcuate fibers Restis or restiform body
Fasciculus of Rolando, cuneatus and gracilis
3 Lateral fibers Oliva or olivary bodies
Anterolateral ground bundle or fasciculus proprius anterolateralis; anterolateral cerebellar tract or fasciculus anterolateralis superficialis
4 Interolivary stratum, fillet or lemniscus
5 Fourth ventricle or metepicele
Metapore or foramen of Magendie Foramina of Luschka, Key and Retzius Obex Lingula Calamus scriptorius
6 Nucleus of glossopharyngeal system Solitary tract
7 Nuclei of vagus and accessory nervs
75 Ambiguous nucleus
78 Dorsal nucleus of vagus
9 Nucleus of hypoglossal system or hypoglossal nidus

.819 Meninges and cerebral meninges
1 Pia mater or pia
2 Telae choroideae, velum interpositum, choroid plexus
3 Arachnoid villi
Glandulae Pacchioni, Luschka's villi or granulations
4 Cisterns, or subarachnoid cisterns
5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

611.82 Spinal cord, or myel

.821 **Enlargements or intumescentia; general structure**

2 Cervical cord or myel, pars cervicalis
3 Thoracic or dorsal cord or myel, pars thoracalis
4 Lumbar cord or myel, pars lumbaris
5 Sacral cord
6 Terminal cone, or conus (medullaris) Filum Cauda (equina)
8 Grooves and fissures, sulci and fissurae

.822 **Gray substance or matter, entocinerea or cinerea Gray cornua or colum**

1 Anterior or ventral colum or cornu or funiculus anterior
2 Posterior or dorsal " " "
3 Clarke's colum, nucleus dorsalis or Stilling's nuclei
4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa
6 Reticula or formatio reticularis

.823

.824 **White substance, or alba**

.825 Anterolateral colum

Anterior plus lateral colums

2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**

Direct or uncrost tract, fasciculus cerebrospinalis anterior, or fasciculus

Crost pyramidal tract, or cerebrospinalis lateralis

3 Direct cerebellar tract, or dorsolateral cerebellar tract
4 Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
5 Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer
6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal
7 Anterolateral ground bundle or fasciculus proprius anterolateralis
8 Anterior or ventral commissure

.826 Posterior or dorsal colums

1 Ascending fibers

Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando

5 Descending fibers Comma tract in Burdach's colum
8 Radicular fibers
9 Posterior or dorsal commissure

.827 Roots of nervs

Works tracing nerv roots into spinal cord; for microscopic studies on nerv roots see 611.832

1 Anterior or ventral roots
2 Posterior " dorsal "

.828 **Spinal canal Ependyma or endyma**

Rhomboidal sinus Reissner's fibers

.829 **Spinal membranes, or meninges spinales**

1 Spinal pia mater
3 " arachnoid
5 " dura mater

611.83 Periferal nervous system Nervs

.831 **Cranial nervs and ganglia**

1 Olfactory, or 1st cranial
2 Optic, or 2d cranial
3 Motoroculi, 3d cranial or oculomoto
4 Trochlear, pathetic, or 4th cranial
5 Trifacial, trigeminus, or 5th cranial

Large or great superficial petrosal branch

52 Ofthalmic nerv of Willis
54 Superior maxillary nerv or maxillary nerv

Infraorbital branch

542
56 Mandibular or inferior maxillary
6 Abducent, external motoroculi, oculomoto, or 6th cranial
7 Facial, 7th cranial nerv, or portio dura
73 Other collateral branches
74 Terminal branches
75 Pars intermedia of Wrisberg (nervus intermedius) Chorda tympani
8 Auditory, acoustic or 8th nerv
81 Cochlear nerv or path, or central auditory path
85 Vestibular path or nerv
9 Glossopharyngeal or 9th nerv
91 Pneumogastric, vagus or 10th nerv
911 Parietal branches: auricular and lateral nervs
914 Pharyngeal branches
915 Superior cardiac nervs
916 Superior laryngeal nerv
917 Inferior or recurrent laryngeal nerv
918 Pulmonary branches
919 Esofageal and gastric branches
92 Spinal accessory or 11th nerv
93 Hypoglossal or 12th nerv

.832 Spinal nervs

Including in 5–6 microscopic studies on nerv roots. See also 611.827

1 Dorsal or posterior branches
2 Ventral or anterior "
5 Dorsal or posterior roots See also 611.8272
6 Ventral or anterior " See also 611.8271

.833 Cervical nervs

1 Dorsal or posterior branches of cervical nervs Small and large suboccipital nervs
2 Ventral anterior branches of cervical nervs
3 Cervical plexus
32 Large auricular nerv
33 Cutaneous nerv of neck
34 Supraclavicular nervs
36 Frenic or internal respiratory nerv of Bell
4 Brachial plexus
41 Supraclavicular part
47 Infraclavicular part
5 Median nerv
6 Ulnar or cubital nerv
7 Radial nerv

Musculo-spiral

8 Musculocutaneous nerv
9 Antibrachii ulnaris

Cutaneus brachii medialis, or nerv of Wrisberg

.834 Thoracic nervs

1 Posterior branches
2 Anterior " Intercostal nervs

611.835 **Lumbar and sacral nervs**
1 Posterior branches
2 Anterior "
3 Lumbosacral plexuses
4 Lumbar plexus
41 Great iliohypogastric nerv
42 Ilioinguinal
43 Genitofemoral or genitocrural
44 Lateral or cutaneous nerv of thigh
5 Femoral nerv or anterior crural nerv (femoralis)
51 Middle cutaneous nerv
52 Internal " "
53 Muscular branches of posterior division of anterior crural nerv
54 Long or internal saphenous nerv
6 Obturator nerv
61 Accessory obturator, or accessory anterior crural nerv of Winslow
68 Lumbosacral cord
7 Sacral or sciatic plexus
71 Superior gluteal
72 Inferior "
73 Small sciatic nerv (cutaneus femoris posterior)
8 Great sciatic nerv or ischiadicus
81 External popliteal, or peronaeus communis or peroneal
82 Sural or lateral cutaneous branch, or cutaneus surae lateralis
84 Musculocutaneous or superficial peroneal
86 Anterior tibial nerv or deep peroneal
87 Internal popliteal or tibial
88 Sural or plantar nervs
9 Genital, pudic or pudendal plexus
93 Collateral branches
95 Pudic nerv

.836 **Coccygeal plexus** **Coccygeal nervs**

.839 **Sympathetic system**
1 Cervical and cephalic part
11 Superior cervical ganglion
12 Internal carotid nerv and plexus
Cavernous plexus
13 External carotid nerv and plexus
14 Common " plexus Superior cardiac nerv
15 Middle " ganglion Middle " "
16 Inferior cervical "
17 " cardiac nerv Cardiac plexus
2 Thoracic part of gangliated cord
3 Abdominal and pelvic part of sympathetic system
31 Solar or epigastric plexus or plexus coeliacus

.84 Eye Organ of vision
See also 611.7146 Orbit, including capsule of Ténon

.841 **Fibrous coats or tunics of eye**
1 Conjunctiva
3 Cornea
5 Sclerotic coat or sclera
Canal of Schlemm Spaces of Fontana

.842 **Vascular coats of eye** **Uveal tract**
1 Iris Pupil
3 Choroid
Tapetum
5 Ciliary body, muscle and processes

.843 **Retina**
Optic disc; macula lutea For optic nerv see 611.8312

611.844 **Refracting media**
1 Crystallin lens
2 Zonule of Zinn or zonula ciliaris
7 Vitreous humor Posterior chamber
Hyaloid membrane Hyaloid or Stilling's or Cloquet's canal
Canal of Petit
9 Aqueous humor Anterior chamber

.846 **Accessory organs of eye**
1 External muscles, musculi oculi
4 Tear apparatus
7 Lacrimal gland
8 " canals and puncta
9 " sac and nasal duct

.847 **Eyelids or palpebrae**
Canthi
5 Eyelashes or cilia
6 Eyebrows or supercilia

.85 Ear Organ of hearing
See also 611.8318 Auditory nerv

.851 **Internal ear**

.852 Membranous labyrinth
1 Cochlea, scala media, or ductus cochlearis
2 Organ of Corti, or Corti's fibers
4 Saccule
5 Utricle
6 Semicircular canals

.853 Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella

.854 **Middle ear or tympanum**
Atrium or tympanic cavity proper
5 Attic
7 Mastoid cells

.855 Membrana tympani, or drumhed

.856 Eustachian tube or tuba auditiva

.857 Bones of ear
Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani

.858 **External ear**
Meatus, pinna

.86 Organs of smell; olfactory organs

.87 " " taste

.88 " " touch and senses in general

889 Organa lateralia

.89 Ganglions
Class ganglions here if separately treated

.891 **Cranial ganglions**
5 Semilunar ganglion or Gasserian
52 Ciliary "
54 Sphenopalatin or Meckel's ganglion
56 Otic or Arnold's submaxillary ganglion
7 Geniculate ganglion
81 Spiral or Corti's ganglion
85 Vestibular ganglion
9 Petrosal and superior glossopharyngeal ganglion
91 Jugular and nodose ganglions

.892 Ganglions of spinal nervs
See also 611.832 Spinal nervs

.899 Sympathetic ganglions
For chromaffin tissue see 611.4

611.9 **Regional anatomy**
.91 Hed
.92 **Face**
.93 Neck
.94 Thorax
.942 **Front or pectoral**
.946 **Back or dorsal**
.95 Abdomen
.951 **Epigastric region**
.955 **Mesogastric "**
.957 **Hypogastric "**
.959 **Lumbar "**
.96 **Pelvic and perineal region**
.962 True pelvis
.964 False "
1 Inlet 2 Cavity 3 Outlet
.966 Position and size
.968 Difference between male and female pelvis
.97 Upper extremities
.971 **Shoulder or axilla**
.972 **Arm**
.973 **Elbow**
.974 **Forearm**
.975 **Wrist**
.976 **Hand**
.977 Fingers
.98 Lower extremities
.981 **Hip Nates Sulcus inguinalis**
1 Hip
2 Nates
3 Sulcus inguinalis
4 Inguinal canal
5 Crural or femoral canal
.982 **Thigh**
.983 **Knee Popliteal space**
.984 **Leg**
.985 **Ankle**
.986 **Foot**
.987 Toes
.99 **Tail**

612 Physiology

SUMMARY

612.013 Vitalism
.014 Cells and organisms
.015 Physiologic chemistry
.1 Blood and circulatory system
.2 Respiration
.3 Digestion
.4 Glandular system
.5 Animal heat
.6 Reproduction Development
.7 Motor and vocal apparatus
.8 Nervous system

.01 **General theory of physiology**
.0111 Notion, definition, nature
.0112 Classification, division
.0114 Terminology, notation, symbols
.0118 Methods
.012 Physiologic theories and generalities
.013 **On the nature of life and deth Vitalism**
This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history
1 Signs of real deth See 577.7
2 Experiments on executed persons
4 Tneories of life and the soul Vitalism
See metaphysics, 128
5 Comparisons of animals and plants See 577.5
6 Organism and inanimate matter See 577.1
7 Vital energy See 577.6
8 Experiments on surviving organs See 577.6
.014 **General physiology of cells and organisms**
See 576 and note under 612.013
1 Chemistry of cells
11 **Aerobic and anaerobic cells**
2 Physiologic morfology of cells
21 **Functions of protoplasm**
22 " " nucleus
24 " " chromosome bodies Chromatolysis
26 " " centrosome
3 Physiologic characteristics of cells
31 Irritability in general
32 Fatigue
4 Influence of environment on cells and organisms
Mesology
41 **Effects of barometric pressure**
See also 612.27 Influence of barometric pressure on living beings
42 **Action of electricity Electrophysiology**
421 Electrophysiologic technic
See also 615.84 Electrotherapy
2 Static electricity
4 Dynamic electricity
5 Alternating currents
7 Electric mesurements
8 Special instruments
1 Electrodes 2 Telefone. microfone 6 Galvanometers
422 Electric resistance Conductibility

612.014 423 Electric fenomena of organisms
For electric fenomena of muscles see 612.743, of nervs and muscles see 612.813
1 Theory of electric fenomena
2 Negativ variation
3 Electrotonus
4 Electric fenomena of tissues in repose and in action
424 Action of electricity on organisms
Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e. g. action of electricity on red corpuscles 612.0144240111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 mcans bile
2 Action of static electricity
3 " " atmosferic "
4 " " dynamic "
5 " " alternating currents
425 Deth by electric shock; by lightning
426 Magnetic action
427 Galvanotropism
428 Electrotherapy from physiologic point of view
43 **Action of heat and cold** See also 612.59
44 **Action of light** See also 612.843
445 Fosforescence
447 Heliotropism Fototropism
See also 615.831 Fototherapy
45 **Action of sound and its vibrations**
See also 612.85876
46 **Poisons and chemic substances**
Poisons and definit chemic substances ar preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
461 Effects of water
1 Reviviscent animals
2 Hydrations
3 Quantity of water in organisms and tissues
462 Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Crvoscopy
Subdivisible with 0 like 612; e. g. Cryoscopy of gastric juice 612.0144622032
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.398133 Theory of histologic conservation
6 Reaction, acid or alkalin
7 Viscosity
8 Superficial tension
9 Other physicochemic forces
463 Action of mineral salts on organisms
464 " " air, normal and abnormal; of oxygen and ozone
465 " " anesthetics
466 " " antiseptics
467 Chemotaxis Chemotropism
469 Action of other chemic forces
47 **Action of mechanical forces**
477 Geotropism
478 Thigmotaxis
48 **Other physical forces**
481 Various rays
1 Physiologic effect of X rays
To express effect of X rays on a specific organ or tissue, ad 0 and subdivide like 612; e. g. effect of X rays on sight 612.0144811084
4 Effect on lower organisms
482 Effect of radioactiv substances; Becquerel rays
483 Production and action of N rays

612.015 Physiologic chemistry in general
1 Ferments
11 **Oxydants Reducing ferments**
12 **Hydrolytic**
13 **Proteolytic**
14 **Lipolytic**
15 **Amylolytic and sucroclastic**
16 **Glycolytic**
161 Alcoholic
2 Normal composition of the body and its products
See also 612.3926, 612.396–.398
21 **Extracts of organs**
3 Metabolism
31 **Of mineral substances**
See also 612.3926
32 **Of carbon**
See also 612.22
33 **Of nitrogen**
See also 612.46123
34 **Of substances foren to the normal organism**
Elimination of poisons
Most material will be clast under 615.7 and its subdivisions
See also special organs
346 Metabolism of nonnitrogenous substances
347 " crystallizable nitrogenous substances
348 " albuminoids
349 after deth Autolysis
Subdivisable with 0 like 612; e. g. autolysis of the liver 612.015349035
35 **Influence of temperature on metabolism**
See also 612.59
36 **Reductions, hydrations and syntheses in organisms**
37 **Influence of other agents on metabolism**
38 **Influence of nervous system on metabolism**
39 **Metabolism in disease**
4 Staining substances and pigments
.016 **Means of attack and defense**
Comparativ physiology; usually better clast in 591.57
1 Autotomy
2 Mimicry
3 Physiology of parasites
.019 **Comparativ physiology**
May be subdivided like 590 to signify kind of animal; e. g. Reptils being 598.1, comparison of reptil and human physiology is 612.01981 Class here only books written distinctly from physiologist's point of view. Other works on comparativ zoology are better in 591.1

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs
.07 Study and teaching
.072 Vivisection
See also ethics, 179.4, and laws, 614.22
.08 Polygrafy
.09 History

612.1 Blood and circulatory system
- .109 History of circulation of blood
- .11 General properties of blood
- .111 Red corpuscles
  - 1 Chemic composition
    - 11 Hemoglobin and oxyhemoglobin
    - 14 Carboxyhemoglobin
      - Action of CO on blood, carbon monoxid hemoglobin
    - 15 Spectroscopy of blood
    - 16 Methemoglobin and derivates
      - Hematin or hematoxylin, hematoidin, globin, hemin or Teichmann's crystals, hematochromogen, hematoporphyrin
    - 17 Isotony of corpuscles Osmotic permeability
    - 19 Chemic substances in corpuscles
      - Lecithin, urea, cholesterin, etc.
  - 2 Number of corpuscles
    - Technic of counting
    - 22 Volume of corpuscles
  - 3 Formation of corpuscles
    - See also 612.119 Sanguification
  - 4 Action of poisons on corpuscles
    - See also 612.11114 Action of CO on blood
    - 44 Agglutinating substances
    - 45 Hemolytic substances
  - 6 Corpuscles in disease
  - 7 Other red corpuscles than erythrocytes
  - 8 Coloring matters of invertebrate blood
    - e. g. hemocyanin
  - 9 Other similar coloring matters
    - e. g. chlorophyl and derivates: phylloerythrin
- .112 Leucocytes and ameboid cells
  - 1 Chemistry of leucocytes
    - 11 Ferments of leucocytes
      - Influence of leucocytes (lymphocytes) on digestion
  - 2 Movements and irritability of leucocytes
    - 3 Phagocytosis
    - 4 Diapedesis
  - 5 Effect on coagulation of blood
  - 6 In disease and intoxications Leucocytosis
    - For digestiv leucocytosis see 612.11211
  - 7 Counting and its technic
  - 8 Numeric relations of white and red corpuscles
  - 9 Varieties Physiologic morfology
- .113 Arterial blood
- .114 Venous "
- .115 Coagulation of blood
  - 1 Fibrin Fibrinoplastin
    - 11 Composition and chemic properties
    - 12 Fibrogenous and fibrinoplastic ferments Fibrinogen Thrombin
    - 13 Estimating quantity of fibrin
  - 3 Substances modifying coagulation
    - 31 Retarding agents
    - 35 Accelerating agents

612.116 Total quantity of blood
- 2 Hemorrhage Anemia
  - Subdivisable with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243, 618.54
  - 21 Hemostasia
- 3 Transfusion
  - Effect on system receiving transfused blood
- .118 Physical and biologic properties of blood
  - 1 Physical
    - 11 Osmotic pressure
      - See also 612.11117 Osmotic permeability
    - 12 Effect of various injections
    - 14 Viscosity
    - 17 Cryoscopy of blood
      - Method of studying isotony and similar phenomena by relativ freezing points of solutions
  - 2 Biologic properties
    - 21 Toxins and antitoxins
      - Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins
      - 211 Theory of toxic and antitoxic action
    - 22 Toxic and antitoxic action of blood
      - Limited to blood toxins and antitoxins. See also 612.3988
      - 221 Specific reaction of blood and albuminoids
        - Blood in legal medicin
      - 222 Natural immunity
      - 223 Effect of blood on bacteria
        - Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy
    - 24 Various toxic and antitoxic substances of blood
    - 7 Varieties of blood in different parts of body
- .119 Hematopoiesis or sanguification
  - See also 612.1113 Formation of red corpuscles
- .12 Chemic properties of blood
- .121 Reaction and density
  - Color reaction Specific gravity
- .122 Carbohydrates in blood
  - 1 Glucose 2 Glycogen 3 Glycolytic ferments
- .123 Fats, lipoids, cholesterin, saponin, glycerin
- .124 Albumins and albuminoids Uncrystallizable nitrogen compounds
  - See also 612.39812 Blood serum
- .125 Crystallizable nitrogen compounds
  - 1 Staining substances of serum
- .126 Mineral salts
- .127 Blood gases
  - 1 Technic for determining quantity 2 Oxygen 3 Carbonic acid
- .128 Ferments
- .129 Other chemic substances
  - Abnormal substances

612.13 Hydraulic principles of circulation
.133 **Arterial circulation**
Sounds and murmurs
See also 612.143
.134 **Venous circulation**
See also 612.144
1 Air in the veins
2 Venous pulse Flebogram
.135 **Capillary circulation**
.14 Blood pressure
.141 **Technic of mesuring pressure**
Sphygmograf Sphygmomanometry
.143 **Pressure in arteries**
See also 612.133
.144 **Pressure in veins**
See also 612.134
.145 **Pressure in capillaries**
See also 612.135
.146 **Influence of various agents on pressure**
1 Influence of respiration Asphyxia
See also 612.213
2 Effect of drugs and organic extracts
3 Pressure in disease
.148 **Pressure in lesser or pulmonary circulation**
.15 Rapidity of circulation
In arteries, veins or capillaries Technic of mesuring
.16 Pulse
For dicrotic pulse see 616.0751 Pulse in diagnosis
See also 612.1342 Venous pulse
.166 **Pulse in disease**
.17 Hart
.171 **Mechanism of cardiac contraction**
Impulse or apex beat Change of volume and position of beating hart Systole Diastole
1 Technic of cardiac contraction Cardiografy
3 Valvs System of valv closure
5 Hart sounds
56 " " in disease
7 Action of abnormal hart: misplaced or malformd
.172 **Hart as a muscle**
Cardiac irritability, contractibility and physiologic morfology
1 Action of blood and coronary arteries Cardiac anemia
2 Rhythm Excitation wave Frequency of beats
3 Electric stimulation of hart and refractory period
4 Electromotiv force
5 Surviving hart Artificial respiration
Solutions maintaining beat of hart
6 Physiologic morfology
61 **Conduction of stimulation**

612.173 **Work of the hart**
Chemic, dynamic and thermic fenomena
1 Chemic composition of hart
2 Intracardiac pressure
.174 **Effect of toxins on the hart**
1 Atropin
2 Anesthetics
.176 **Hart in disease**
.178 **Innervation of hart**
1 Pneumogastric or vagus
See also 612.819911
2 Sympathetic
See also 612.897
3 Ganglions of hart
4 Action of cerebrum
See also 612.8228
5 Action of medulla oblongata
See also 612.828
6 Cardiac syncopes and reflexes
7 Depressor nerv
.179 **Prenatal circulation**
.18 Vasomotors
.181 **Action of nervs and nerv centers on bloodvessels**
1 Action of cerebrum
2 " " medulla oblongata
3 " " spinal cord
4 " " great sympathetic
.182 **Influence of vasomotors on arterial pressure**
.183 **Vasoconstrictors**
.184 **Vasodilators**
.185 **Effect of poisons on vasomotors**
.186 **Vasomotors in disease**
.187 **Vasomotors in organs**
Divide like 612 Physiology; e. g.
612.18724 Effect of vasomotors on lung capacity
612.1878421 Effect of vasomotors on iris
612.1875 Influence of vasomotors on temperature
612.187556 Vasomotors in fever
.188 **Erectil tissues**
See also 612.612
.189 **Change of volume of organs**
Plethysmografy Quantity of blood in various organs
.19 Action of special organs on circulation
.2 **Respiration**
See also 612.793 Cutaneous respiration
.21 Respiratory movements Mechanics of respiration
.211 **Pneumografy Respiratory types**
Respiratory excursion
.212 **Pulmonary elasticity and intrapleural pressure**
Intrapulmonary and intrathoracic respirations

612.213 **Influence of respiration on circulation**
See also 612.1461
.215 **Special physiology of respiratory apparatus**
1 Bronchi
2 Trachea
3 Smooth pulmonary muscles
4 Primary paths of respiration: nose and pharynx
5 Pleura
8 Pulmonary circulation
See also 612.148
9 Pulmonary absorption of liquids
See also 612.385
.216 **Respiratory frequency and rhythm**
1 Respiratory sounds
2 Pulmonary ventilation
3 Artificial respiration, artificial changes of respiration
.217 **Action of muscles Mechanical fenomena**
Dimensions and expansibility of thorax
1 Action of diafram
.219 **Other mechanical fenomena**
Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling
.22 Respiratory exchange of gases Respiratory chemistry
02 Action of oxygen and ozone on organisms
08 Composition of normal air (only in its physiologic bearing)
.221 **Technic of gaseous exchange**
.222 **Effect of various agents on gaseous exchange**
.223 **Effect of quality of air**
Hyperpnea, polypnea, thermopnea
1 Composition of abnormal air
11 Carbonic acid
12 Activ oxygen or ozone
2 Influence of barometric pressure
See 612.27
3 Influence of climate
.224 **Influence of food**
.225 " " **temperature**
.226 **Effect of disease and intoxications**
.227 **Influence of organs**
1 Influence of muscular movements
Motion, rest, work
2 Influence of nervous system
3 " " circulation
.229 **Influence of animal kind**
Variability of gaseous exchange in animal kinds
1 Influence of stature
2 Aquatic animals

612.23 Gaseous exchange in the blood
.231 **Expired air Respiratory quotient**
.232 **Asphyxiation**
In legal medicin
1 Artificial respiration in asphyxiation
2 Asphyxiation by submersion
3 Hart in asphyxiation
4 Toxic action of carbonic acid (CO_2)
.233 **Respiration in confined air**
.234 **Toxic action of carbonous oxid (CO)**
See also 612.11114 and 615.96
.235 **Exchange of gases between air and blood**
1 Theory
.24 Lung capacity Vital capacity
Residual, reserv, respiratory or tidal and complemental air
25 Exhalation of water from lungs
26 Internal or tissue respiration
.261 **Exchange of gases between tissues and blood**
.262 **Accumulation of oxygen in tissues (cells)**
.27 Influence of barometric pressure on living beings
See also 612.01441. For effect on absorption of oxygen and exhalation of carbonic acid see 612.2232
.273 **Toxic effects of oxygen and ozone**
.274 **Effect of more than normal pressure**
Physiologic aspect of caisson disease
.275 **Effect of less than normal pressure**
1 Physiologic and therapeutic effects of high altitudes
11 Mountain and aeronautic sickness
.276 **Effect of pressure on fermentations**
Effect of removing pressure
.279 **Maximum pressures**
Effect on aquatic animals
.28 Respiratory centers
Influence of nervous system on respiration
.281 **Action of cerebrum and of will**
.282 " " **medulla oblongata and vagus nucleus**
.283 " " **spinal cord**
.284 " " **chemic substances and abnormal blood gases**
1 Toxicology of center
2 Apnea, acapnea, dyspnea
See also 612.232
.287 **Action of pneumogastric or vagus nervs**
See also 612.819912
.288 **Respiratory reflexes**
See also 612.8332
.29 Influence of other organs on respiration

612.3 Digestion
May be subdivided by 01–09 for form, if needed

.31 Mouth Teeth Salivary glands

.311 Mastication and prehension

1 Physiology of teeth

.312 Deglutition or swallowing

2 Tonsils 3 Tung

.313 Salivary glands Saliva

1 Composition of normal saliva

2 Action of saliva on food Ptyalin

3 Salivary secretion

31 Toxic effect of saliva

4 Action of chemic substances

See also Therapeutics, 615.741 Sialagogs

41 Elimination

42 Action of atropin and of pilocarpin

5 Physiologic morfology

6 Pathologic changes of saliva

61 Salivary fistulas

63 Bacteriology

64 Salivary calculi

69 Abnormal substances

8 Action of nervous system on salivary secretion

82 Action of sympathetic nervs

See also 612.898

87 Action of chorda tympani

See also 612.81977

.314 Salivary venoms and venoms in general

1 Chemic composition

2 Toxic action

3 Natural immunity and resistance to venoms

4 Attenuation and neutralization of venoms

5 Treatment of venom poisoning Serotherapy

See 615.94 Duplicated here for physiologist only

51 Antitoxins

See also 612.11822 Antitoxins of serum

.315 Esofagus

.32 Stomach Gastric juice Vomiting

.321 Normal composition of gastric juice

1 Gastric fistulas, experimental and pathologic

2 Determination of acid in gastric juice

5 Proteolytic ferments: pepsin

6 Milk curdling ferments, inorganic and organic

.322 Digestiv power of gastric juice

1 Starch and analogs

2 Sugars " "

3 Fats " "

4 Albuminoids

45 Nature and properties of peptones

See also 612.39817

5 Antiputrefactiv properties of gastric juice

6 Mixture of bile or other secretions of digestiv tract and gastric juice

612.3227 Absorption in stomach and transformation (into mucus) of products of digestion

See also 612.386

72 Absorption and transformation of sugars

73 " " " " fats

74 " " " " nitrogenous substances (peptones)

75 " " " " salts Effect on stomach

.323 Stomach secretion

2 Formation and destruction of pepsin

21 Pepsin in urin

3 Formation of hydrochloric acid (HCl)

4 Autodigestion of stomach

5 Effects of removing stomach

.324 Action of chemic substances (poisons) on gastric secretion and their elimination

.325 Physiologic morfology of stomach

Relation between morfologic changes and stimulation

.326 Pathologic changes of stomach secretion

3 Bacteriology

5 Gastric juice in disease

9 Abnormal substances in gastric juice

.327 Movements of stomach

1 Muscular irritability of stomacn

2 Motor action of pneumogastric See also 612.819913

3 Evacuation of stomach

5 Merycism and rumination

7 Vomiting

8 Action of emetics or vomitories

See also under therapeutics, 615.731 Emetics

.328 Action of nervous system on stomach

1 Psychic influence on stomach secretions

8 Sensibility of stomach

.33 Intestin

Middle intestin and glands of middle intestin in invertebrates

.331 Normal composition of intestinal juice

1 Intestinal fistulas, experimental and pathologic

7 Intestinal gases Fermentiv process due to bacteria

.332 Intestinal digestion

2 Carbohydrates

3 Fats

4 Albuminoids and derivates Erepsin

7 Absorption and changes of food in intestin

See also 612.386

72 Carbohydrates

73 Fats Chyliferous vessels See also 612.426

74 Albuminoid derivates

75 Other substances

751 Inorganic substances Water and salts

8 Action of intestinal juice on other secretions and ferments

See also 612.3226

84 Enterokinasis and secretin

612.333 **Intestinal secretion**
·334 **Action of chemic substances on the intestin and their elimination**
4 Purgativs
See also therapeutics, 615.7323 Cathartics
·335 **Physiologic morfology of intestin**
5 Intestinal circulation
·336 **Pathologic changes of intestinal secretion**
3 Parasites and microbes
31 Bacterial fermentation Physiologic effect of microbes
·337 **Movements of intestin**
1 Movement of chyme in intestin
·338 **Action of nervous system on intestin**
1 Action of nervs and nerv centers on secretion
·339 **Peritoneum Omentum**
1 Absorption in peritoneum
See also 612.387
·34 Pancreas Pancreatic juice
·341 **Normal composition of pancreatic juice**
1 Pancreatic fistulas
·342 **Action of pancreatic juice on food Tryptic digestion**
1 Starches and analogs
2 Sugars
3 Fats Steapsin or ptyalin
4 Albuminoids Trypsinogen Trypsin
5 Effect on other digestiv fenomena
51 On bile and gastric juice
See also 612.3226
·343 **Pancreatic secretion**
·344 **Action of special substances on pancreatic secretion and juice**
·345 **Physiologic morfology**
Relation between morfologic changes and stimulation
·346 **Pathologic changes of pancreatic juice**
·348 **Action of nervous system on pancreas**
·349 **Pancreas as an internal gland Ilands of Langerhans**
1 Pancreatic glycosuria
Physiologic fenomena only. See also 612.35216, 612.46621, and diseases 616.63, where most material belongs
·35 Liver
·351 **Hepatic circulation and chemic composition**
1 Chemic composition
11 Ferments
5 Hepatic circulation
51 Ligature of portal vein
6 Effect of extracts from hepatic tissue
61 Hepatic opotherapy

612.352 **Effect of liver on absorbd foods**
1 Glycogenesis Glycogen of liver and its tissues
See also 612.396112 Chemistry of glycogen
11 Determination of amount of sugar and glycogen: technic
12 Sugar of the blood See also 612.122
13 Action of nervs on glycogenic function Experimental diabetes
14 Fermentation of glycogen Glycogenolysis
16 Glycosuria (diabetes) in general
See also 612.3491, 612.46621 and pathology 616.63
17 Glycogen of other organs
18 Glycogen of muscles See also 612.74411
19 Relations between glycogenesis and alimentation
2 Fat Adipogenic function
·353 **Hepatic chemic fenomena**
1 Formation of urea See also 612.4612
·354 **Action of poisons on liver**
1 Toxic steatoses
2 Antitoxic action of liver
·355 **Temperature of liver** See also 612.563
·356 **Hematopoietic function of liver and effect on blood**
See also 612.119
·357 **Bile**
1 Normal composition of bile
11 Biliary fistulas
13 Coloring matter Bile pigments
Bilirubin, biliverdin For origin see 33 below
14 Mineral salts
15 Biliary acids and their salts
Glycocholic and taurocholic acids
2 Action of bile in the intestin
Final fate of bile
3 Bile secretion
31 Quantity
38 Origin of bile acids
33 " " " pigments
4 Action of chemic substances on bile secretion
See also therapeutics, 615.742 Cholagogs
5 Elimination of poisons by bile
6 Pathologic physiology of bile
For general works and medical aspect see 616.36
64 Biliary calculi
65 Obliteration of bile ducts Icterus Jaundis Cholemia
See also pathology, 616.36 Liver and bile ducts
66 Bile in disease
67 Toxic effects of bile
69 Abnormal biliary substances
7 Biliary excretion Physiology of ducts
71 Gall bladder
72 Absorption in biliary ducts
73 Contractility of ducts
8 Innervation of bile ducts
·358 **Action of nervous system on liver**
·359 **Ablation, regeneration, cicatrization and other morfologic fenomena**
1 Volume of liver
2 Fatty or starchy degeneration

612.36 Defecation Large intestin
Proctodeum and its appendages in invertebrates
.361 **Chemic composition of excrements**
.363 **Cecal digestion Vermiform appendix**
.364 **Absorption in large intestin**
.365 **Defecation**
.366 **Rectum**
.367 **Movements of large intestin**
.368 **Innervation " " "**
.38 Absorption
.381 **Imbibition Transudations and exudations Edema**
.382 **Osmosis** See also 612.0144621
1 Dialysis of mineral salts
2 " " sugars
4 " " albuminoids
.383 **Diffusion**
.384 **Absorption by skin**
See also 612.79
.385 **Absorption by lungs**
See also 612.2159
.386 **Absorption in digestiv tract**
General; see also specific part of tract
.387 **Absorption by mucous and serous membranes**
See also 612.3391
.388 **Parenchymatous absorption**
Absorption by cellular tissue (after injection)
.39 Nutrition Metabolism
.391 **Hunger Thirst Inanition**
3 Hunger, thirst and nervous centers Mechanical action of hunger
4 Inanition in man
5 " " disease
9 " " animals
92 Inanition in poikilothermic animals
96 " " homoiothermic "
.392 **Foods**
1 Assimilation of carbon
2 " " nitrogen
See also 612.46123
3 Assimilation of water
4 " **of sulfur, fosforus and iron**
3 Sulfur 4 Fosforus 5 Iron
5 Thermodynamic value of food
6 Mineral foods
1 Sodium salts 2 Potassium salts 3 Calcium salts
7 Vegetable foods
71 Vegetarianism See also hygiene, 613.26 Vegetable diet
While the strictest vegetarians confine themselvs to a purely vegetable diet, the majority use some forms of animal food, e. g. milk, butter and egs
72 Fruits and fresh vegetables
73 Cereals
74 Bred

612.3928 Animal food
See also hygiene, 613.28 Meats in diet
81 Meats
82 Soup Meat extracts
83 Egs
84 Milk
See also 612.664
841 Sterilization and artificial changes in milk
85 Cheese
86 Butter
9 Special artificial foods
.393 **Condiments and stimulants**
1 Alcohol as food Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol
2 Coffee Tea
See also hygiene of beverages, 613.37
9 Condiments
.394 **Ration or food requirement during growth**
2 Of man Nourishment of newborn
3 " animals
.395 **Ration or food requirement of adults**
1 Working ration Normal ration
12 Working ration for man
13 " " " animals
2 Subsistence ration
22 Subsistence ration for man
23 " " " animals
5 Relations of ration to external conditions, e. g. climate
6 Food requirements in disease
.396 **Carbohydrates**
1 Chemic composition
11 Polysaccharids
111 Starch Inulin
112 Glycogen
113 Cellulose
12 Gums and analogs: dextrin
13 Monosaccharids: glucose, mannose, galactose, fructose, etc.
14 Disaccharids: sugar, lactose, maltose, etc.
17 Combined carbohydrates
See 612.3981453 Glycoproteids
172 Chitin
175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
19 Other carbohydrates: pentose, inusitum
2 Changes of sugars in organism Glycolysis
21 Products of carbohydrates; e. g. glycuronic acid
22 Alcohol in tissues
3 Hydrolytic ferments of carbohydrates and analogs
31 Amylasis, inulasis, cytasis, etc.
32 Saccharoclastic ferments Inversion
4 Formation of carbohydrates in organism
5 Thermodynamic value of carbohydrates
7 Quantity of carbohydrates in foods and tissues

612.397 **Fats**
1 Chemic composition
2 Changes of fats in organism
21 Fatty degeneration and infiltration See also 612.3592
22 Products of fats
23 Acids
24 Glycerins
3 Lipolytic ferments
4 Formation of fats
5 Thermodynamic value
7 Quantity of fat in food and tissues Adiposity
8 Lipoids
81 Cholesterin
82 Lecithin
.398 **Albuminoids and nitrogenous substances**
1 Chemic composition
11 Composit albuminoids
For eg albumin see also 612.39283
12 Blood serum and other serous fluids of body
See also chemical properties of blood, 612.124 Albuminoids
13 Simple albuminoids
131 Albumin
132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
133 Coagulated albuminoids Fibrin Coagulation of albuminoids
135 Albuminoids as acids or bases
136 Nucleoalbumins, simple phosphorated albuminoids
138 Protamins
139 Other albumins
14 Other albuminoids
145 Proteids
Albumin + a complex organic compound
1 Nucleoproteids
Albumin + nucleic acid, products of nucleic acid and specific ferments
2 Hemoglobin and analogs
Albumin + an iron compound. See also 612.11111
3 Glycoproteids
Albumin + a carbohydrate. See also 612.3967
146 Albuminoids: glutin, elastin, amyloid, etc.
15 Vegetable albuminoids
16 Albuminoid products and nitrogen compounds
17 Albuminoses and peptones
172 Thermodynamic value
175 Changes of substances derived from albuminoids by digestion
19 Products of complete change of albuminoids Nitrogen compounds
191 Protaminic nucleus See also 612.398138
192 Amidic acids
193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
194 Ammonia and ammonia compounds
195 Bases (alkaloids), purin compounds
196 Aromatic compounds
197 Nonnitrogenous products of albuminoids
199 Other products
2 Changes of albuminoids in organism
3 Proteolytic ferments
Only general works See specific nitrogen compounds for their derivates, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
5 Thermodynamic value of albumins and derivates Albumin as food

612.3986 Formation of albuminoids in general
7 Quantity of albuminoids in food and tissues
8 Toxins, antitoxins Chemistry of poisons
For action, see 612.11821; for animal poisons, see 612.314; for ptomains, leucomains, etc. see 612.398195 above
.4 **Glandular system Secretion Excretion**
.401 Effect of circulation on glands
.402 " " glands " circulation and blood
.403 " " " " nutrition
.404 " " nutrition " glands
.405 Physics and chemistry of secretion
.407 Effect of glands on nervous system
.408 " " nervous system on glands
See also 612.817
.409 Physiologic morfology of secretions and glandular epitheliums
.41 Spleen
.411 Hematopoietic action Effect of spleen on blood
.412 Splenotomy Circulation in spleen
.413 Contractility of spleen
.414 Spleen in relation to other organs
1 Effect on digestion
.416 Function of spleen in disease, in experimental infections and in wounds
.418 Chemic fenomena
.42 Lymfatic system and lymf
For lymfocytes see 612.112
.421 Lymf Chemic composition
.422 Quantity and origin of lymf
.423 Lymfatic circulation
1 Thoracic duct
.424 Lymfatic harts
.425 Innervation of lymfatic system
.426 Lymfatic absorption
See also 612.33273
.427 Lymfatic fistulas
.428 Lymf glands
.43 Thymus
.44 Thyroid gland
.441 Chemic composition
.442 Parathyroid glands or accessory thyroids
.445 Thyroidectomy Destruction of thyroid
Including pathologic destruction
.448 Effects of thyroid extracts
.45 Suprarenal capsules
.451 Chemic composition
.455 Excision and destruction
.458 Effect of capsular extract

612.46 Kidneys Urin
.461 **Chemic composition of urin**
1 Reaction and physical properties
11 Reaction
12 Density
13 Temperature
17 Urinary technology
174 Staining reactions
175 Spectroscopic examinations
176 Polarimetric "
177 Histochemic "
178 Pathologic urinary technology
179 Densimetry and cryoscopy of urin
2 Urea and nitrogen compounds
21 Determination of quantity of urea **Ureameters**
22 Determination of total nitrogen
23 Excretion and metabolism of nitrogen
231 In relation to alimentation
232 " " " work
234 Effect of chemic substances (poisons)
235 Influence of temperature
236 " " disease
238 " " nervous system
239 " " animal kind
Variability of process in animal kingdom
25 Uric acid See also 612.398193
251 Determination of quantity
254 In animals
255 " normal man
256 " man in disease: uric diathesis
259 " other tissues and fluids than urin
26 Other nitrogen products of urin
261 Bases Xanthin bases See also 612.398195
262 Ptomains
263 Allantoin
264 Peptones See also 612.46668, 612.39817
266 Hippuric acid
267 Ammonium and other urates See also 612.398194
268 Ferments See also 612.32321
269 Physiologic albuminuria
27 Coloring matter Pigments: urobilin, urochrome
6 Salin substances in urin
61 Chlorin salts
62 Fosforus and its compounds
63 Sulfur and its compounds
64 Gases of urin
8 Nonnitrogenous organic constituents of normal urin
82 Sugars Physiologic glycosuria
.462 **Urinary toxicity**
1 Internal secretion of kidneys
.463 **Urinary secretion**
1 Quantity of urin
2 Elimination of urin
4 Renal circulation
5 Influence of blood and circulation
6 Comparativ secretion of the two kidneys
8 Effect of nervous system
81 **Glycosuria, polyuria after lesion of medulla oblongata**

612.464 **Action of poisons on urinary secretion and their elimination**
1 Diuretics Polyuria
See also 615.761 Diuretics in therapeutics
2 Toxic albuminurias
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3 Elimination of poisons by urin
4 Toxic glycosuria Phlorizin
See also 612.46621
.465 **Physiologic morfology of kidneys**
.466 **Pathologic physiology of kidneys and urin**
1 Urinary calculi
2 Urin in disease
21 Urin in diabetes Chemistry of glycosuria For physiology of diabetes see 612.35216
22 Urin in albuminuria Albuminuria in general
See also 612.461269, 612.4642 and 616.634
23 Resection and lesion of kidneys, experimental and pathologic
Ligature of ureter, etc.
231 Uremia See also 616.638
26 Urin in fever
6 Abnormal substances in urin
61 Acetonuria Acidosis
62 Chyluria
63 Other abnormal products of metabolism
631 Glycuronic acid See also 612.39621
64 Products of intestinal putrefaction Indican
67 Biliary pigments Choluria
68 Albuminoses and peptones
69 Hematuria and hemoglobinuria
7 Urinary fermentation Putrefaction of urin
.467 **Urinary discharge**
1 Physiology of bladder, ureters and urethra
11 Micturition
2 Absorption in urinary passages
3 Innervation of vesical apparatus
For prostate see 612.617 For action of nervous system on function of kidneys see 612.4638
.49 Other glands and secretions
.491 **Bone marrow**
.492 **Hypophysis or pituitary gland Somatic brain**
.493 Scent glands of animals
.494 **Bartholin's glands**
.495 **Carotid gland**
.499 **Other glands**
See also 612.664, 612.792

612.5 Animal heat
.51 Sources Thermogenesis Calorimetry
.511 Direct calorimetry
6 Calorimetry in disease
.512 Indirect calorimetry
1 Influence of alimentation
3 Effect of respiration
.52 Loss of heat Radiation Thermolysis
Conduction of animal tissues
.521 Cutaneous radiation
1 Physiology of clothing
.523 Loss by pulmonary evaporation
.524 " " cutaneous evaporation
.53 Regulation of temperature Heat balance Thermotaxis
.531 Influence of vasomotors
.532 " " muscular movement
See also 612.7453
.533 Effect of perspiration
.534 " " respiration Thermic polypnea
.535 Thermic centers
.54 Other conditions affecting temperature and thermogenesis
.541 Effect of baths
.543 " " inanition
See also 612.391
.544 Effect of poisons
.55 Variations in production and regulation of heat
.556 In disease: fevers
.56 Temperature of body
.563 Thermic topografy
.58 Hibernating animals
.59 Heat and cold; effect on organism
Subdivisable with o like 612; e. g. 612.59074 Effect on muscles
612.5908 " nervous system
See also 612.01443
.591 Effect of heat Deth from heat Thermic rigidity
.592 Effect of cold Deth from cold Rigidity from cold

612.6 Reproduction and generation Development
.601 Spontaneous generation
See origin and beginnings of life, 576.1
.602 Transplantation Animal grafting
May be divided by organs like 612
.603 Cicatrization Regeneration
May be divided by organs; e. g. 612.60344 Regeneration of thyroid
612.60384 " " eye
.604 Reproduction of lower organisms
Protozoa, etc.
1 Asexual: fission, division, gemmation or budding or sprouting
2 Sexual: conjugation or concrescence
5 Variations: alternation of generations or metagenesis, pedogenesis, parthenogenesis
.605 Morfogenesis in general Heredity
See 575 Evolution
1 Heredity
2 Variation, including artificial
3 Hybridization
4 Tumors
Only for physiologic aspect, for pathology see 616.992
.606 Proportion and determination of sexes
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.607 Consanguinity Incest
.608 Hermafroditism
.609 Theory of evolution Natural selection, darwinism
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.61 Male functions of generation
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.612 Erection
Including also the function in general, in either or both sexes See also 612.188
.613 Copulation and fecundation
1 Artificial "
2 Parthenogenesis
21 Artificial parthenogenesis
.616 Testicles Orchitic fluid Sperm
1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general
2 Physiology of spermatozoa
3 Testicles as internal glands Interstitial cells
.617 Appendages of male organs: semeniferous ducts, seminal vesicles
.62 Female functions of generation Ovulation
See also 612.612 and 612.6161
.621 Physiology of ovaries
See also 612.6303
1 Ablation or injury of ovary, experimental or pathologic
See also 612.6161
.622 Physiology of ovum
.627 Physiology of uterus
1 Uterin circulation
8 Innervation of uterus

612.63 Impregnation Pregnancy Parturition
See also 612.612
01 Period of pregnancy
03 Ovary in pregnancy Corpus luteum
.64 Development of embryo
For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
.646 Physiology of embryo
.647 " " fetus
.648 " " newborn
649 Appendages of embryo Amniotic fluid
See also 611.0138 Fetal appendages (in embryology)
.65 Growth after birth
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.651 Metamorfosis of lower animals Larvae
.66 Period of full development
.661 Puberty
.662 Menstruation
.663 Fecundity
.664 Lactation and milk
Physiology of mammary glands
1 Physics and chemistry of milk
12 Sugars
13 Fats Butter
14 Albuminoids
16 Mineral substances
17 Lactic fermentation Milk ferments
171 Milk curdling ferments Coagulation of milk
18 Other constituents
181 Abnormal substances
19 Comparison of milk of various animals
191 Human milk
3 Lactic secretion
31 Quantity
32 Formation of sugars
33 " " fats
34 " " albuminoids
35 Colostrum
36 Effect of various agents on secretion
4 Action of poisons on milk secretion and their elimination
5 Physiologic morfology of milk
6 Pathologic changes in lactic secretion
7 Digestion of milk
8 Innervation of mammary glands
.67 Period of decline Deth
See also 577.7
.68 Longevity
See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

612.7 Motor and vocal apparatus Skin
.71 Protoplasm
See also 612.014 General physiology of cells and organisms
.72 Vibratil cilia
.73 Smooth muscle
Divided like 612.74
.74 Striped muscle
Muscle in general, including smooth muscle
741 Muscular contraction
1 Myografy
12 Single contraction of muscle fiber Jerk contraction
13 Tetanic contraction
14 Tonic contraction
15 Influence of chemic substances on muscles
16 Myografy in disease
2 Change of volume of muscle
3 Muscle wave
4 Elasticity of muscle
Myotonometry Effect of weight Tension
6 Muscular irritability Influence of blood
61 Circulation in muscles
62 Effect of stimulation
63 " " electricity
7 Latent period
Time elapsing between moment of stimulation and response by an activ tissue
8 Muscle murmur
9 Physiologic morfology of muscles
Histologic phenomena of contraction
.742 Muscles after deth Rigor mortis
1 Chemic phenomena after deth: autolysis
.743 Electric phenomena of muscles
.744 Chemistry of muscle
1 Normal composition
11 Carbohydrates
See also 612.35218 Glycogen of muscles
14 Albuminoids
15 Other organic substances
16 Mineral substances
Including water Muscle salts
17 Gases
2 Chemic effects of muscular contraction
21 Fatigue
211 Ergografy Dynamometry Work in general
22 Consumption of oxygen and production of CO_2 in work
23 Function of carbohydrates
24 Relation of chemic changes to work Metabolism in relation to work
.745 General effect on organism of muscular contraction or work
See also 612.532
1 Dynamic effects
3 Thermic "
5 Relations between work and heat

612.746 **Pathologic physiology of muscles**
1 Contractures
4 Tremors Shuddering
5 Nutrition of muscles Atrofy Degeneration Regeneration
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.751 **Chemic composition of bone and connectiv tissue**
See also 612.398146
1 Bone
2 Cartilage
3 Connectiv tissue
.752 **Nutrition of bones**
.753 **Growth, cicatrization and regeneration of bone**
.754 **Periosteum Perichondrium**
.755 **Tendons**
.76 Locomotion
Principles of animal mechanism; comparativ study of locomotion preferably clast in 591.47
.761 **Chronofotografy: technic**
.763 **Special movements Combined movements**
Physiology of violin playing, etc.
.766 **Human locomotion**
1 Physiology of exercise and work
2 Rest
.767 **Animal locomotion Special organs of locomotion**
Swimming bladder of fishes
.768 Flight
.769 **Biologic adaptation of movement**
.77 Electric and phosphorescent animals
Preferably clast 591.57
.771 Electric animals
.772 Phosphorescent animals
.78 Voice and speech
See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
.781 **Sensibility of larynx**
.782 **Movements and innervation of larynx**
1 Influence of spinal accessory nerv
See also 612.819923
2 Influence of pneumogastric
See also 612.819917
3 Laryngoscopy
4 Movements of glottis
5 Epiglottis
.783 **Artificial larynx**
.784 **Singing Timbre, quality Voice register**
.785 **Larynx in deglutition and other laryngeal functions**
See also 612.312
.786 Organs of sound in lower animals
.788 Larynx of birds

612.789 **Speech Language**
1 Function of mouth and nose
2 " " lips and soft palate
3 Innervation of organs of speech Aphasia
See also 616.855
4 Vowels and consonants
5 Ventriloquism
See also 791.1 Ventriloquism as an amusement
.79 Skin
.79015 Chemic composition
.791 **Absorption**
See also 612.384
1 Penetration by solids
2 Absorption of fats
3 " " solutions
4 " " liquids
5 " " gases
.792 **Cutaneous glands and secretion**
1 Swet Chemic composition
12 Toxic action of swet
4 Action of chemic substances on swet secretion
42 Elimination of poisons by swet
5 Physiologic morfology of swet
6 Pathologic changes of swet
8 Action of nervous system on cutaneous exhalation
9 Other cutaneous secretions
.793 **Cutaneous respiration**
4 Effect of suspended transpiration; closing pores by liniments, etc.
5 Effect of chemic substances on skin
See also 612.7924
.794 **Cutaneous sensibility**
.795 **Electric conductibility and resistance of skin**
See also 612.014422
.796 **Chromatophores and skin pigments**
.798 **Trofic nervs of skin**
.799 **Growth and physiology of nails and hair**

612.8 Nervous system

.801 Theory of nervous system and innervation
1 Dynamogenesis and inhibition
2 Action of nervous system on chemic fenomena
3 Effect on morfogeny and evolution
See also 612.605

.81 Peripheral nervous system Nerv fibers

.811 Distinction between sensory and motor nervs
3 Ganglions of sensory nervs
4 Influence of sensibility on movement and of movement on sensibility

.812 Recurrent sensibility

.813 Electric fenomena of nervs and muscles
Muscle-nerv experiments as indicativ of nervous process
For muscle fenomena see 612.743
2 Negativ variations
3 Electrotonus

.814 Chemic and thermic fenomena of nervous stimulation
For stimulation of nerv centers see 612.8222

.815 Physiologic morfology of nervous stimulation
1 Sensory terminations
2 Motor "

.816 Irritability of nervs and muscles
Nerv-muscle or nerv-gland physiology
1 Action of electricity
2 Theories of nerv waves
3 Nervous conductibility
4 Effect of blood on nervs Anemia
5 Rapidity of nerv waves
6 Nerv fatigue
7 Action of chemic substances on nervous irritability

.817 Effect of nervs on muscles and glands
1 Chemic substances Curare poisons
2 Voluntary contraction
3 Tonicity Atrofy of muscles after cutting nervs, etc.
See also 612.7465

.818 Trofic nervs
5 Degeneration, regeneration and cicatrization
1 Degeneration 2 Regeneration 3 Cicatrisation

612.819 Special nervs
Whenever possible class according to function rather than according to a particular nerv, classing here only special nerv physiology
1 1st pair: olfactory
2 2d pair: optic
See also 612.843
3 3d pair: motoroculi or oculomoto
31 **Innervation of iris**
See also 612.8422
32 **Innervation of eyelids**
See also 612.847
33 **Innervation of eye muscles**
4 4th pair: trochlear or pathetic
5 5th " : trigeminal
52 **Sensory action**
53 **Trofic action**
6 6th pair: external oculomoto or abducent
7 7th " : facial
71 **Effect on facial muscles**
73 " " **respiration**
74 " " **hearing**
75 " " **deglutition and taste**
77 " " **salivation Chorda tympani**
See also 612.31387
78 **Pathology Facial paralysis**
8 8th pair: auditory
See also 612.8585
9 9th pair: glossopharyngeal
91 10th " : pneumogastric or vagus
911 **Effect on hart and circulation**
See also 612.1781
912 **Effect on respiration**
See also 612.287
913 **Effect on digestiv organs**
See also 612.328, 612.338, 612.348, 612.358, 612.368
915 **Effect on kidneys and other glands**
See also 612.4
917 **Effect on voice production**
See also 612.7822
918 **Section of vagus and pneumogastric**
92 11th pair: spinal accessory
921 **Anastomosis with vagus**
922 **Innervation of respiratory organs**
See also 612.28
923 **Innervation of vocal organs**
See also 612.7893
93 12th pair: hypoglossal
94 Spinal nervs in particular
941 **Phrenic nerv**

612.82 Nervous centers Brain
.821 **Physiologic psychology**
Usually better clast in 131 Mental physiology
1 Time of reaction to stimulation Psychometry
2 Attention Memory Association Imagination
3 Instinct Intelligence Emotions Sensibility
31 Comparativ psychology
311 Nonautomatic actions of animals Anticlisis
312 Automatic " " "
For physiologic aspect see 612.829
313 Instincts of animals Behavior See also 591.51
33 Emotions Sensibility
34 Inhibition of movement Will Habit Impulse
35 Associated movements
4 Action of poisons on intelligence
See also 613.8 Hygiene of nervous system
" " 615.9 Toxicology
41 Alkaloids
42 Nonalkaloid anesthetics
See also Therapeutics, 615.96 Cerebral poisons
44 Alcohol
See also Therapeutics, 615.964 Alcohol as cerebral poison
Pathology 616.861 Alcoholism
5 Effect of disease on intelligence
6 Psychic reflexes
7 Sleep Hypnotism
See also 135 Sleep, Dreams
71 Hypnotism See also 134 Hypnotism
73 Theories of sleep
74 Cerebral circulation in sleep
75 Chemic fenomena of organism in sleep
76 Dreams
8 Sense in general and theories of perception
88 Psychophysical laws
89 Sensory delusions
For optic illusions see also 612.84374
322 **Nerv cells and nerv centers**
1 Chemistry of nervous tissue
Metabolism in nervs
2 Chemic fenomena of nervous excitation
For stimulation of nerv fibers see 612.814
3 Electromotiv fenomena of nervous excitation
4 Thermic " " " "
5 Physiologic morfology " " "
53 Effects of fatigue
54 " " poisons
56 Degeneration and regeneration of centers
6 Effects of removal and experimental, pathologic or teratologic lesion of nerv centers
61 Movement in a circle (motus circularis, manège)
7 Decapitation
8 Action of central nervous system on chemic fenomena of organism
See also 612.01538, 612.8012
81 Effect of chemic changes on centers

612.823 **Weight and general morfology of brain**
5 Conduction in centers
.824 **Cerebral circulation**
1 Neurolymf, neurolymfa or cerebrospinal fluid
Meninges Choroid plexus
2 Brain movements
3 Cerebral vasomotors
4 " anemia
5 Pressure on nerv centers
55 **Compression and concussion of brain Abnormal pressure**
6 Temperature of blood in nerv centers
Effect of abnormal pressure
.825 **Cerebral convolutions (cortex)**
1 Cortical excitability
2 Psychomotiv centers Localizations
23 **Inhibitory actions**
See also 612.8338
24 **Localization in man**
249 Speech Aphasia
See also 612.7893
25 Localization in animals
26 **Topografy of localizations**
261 Frontal lobe
262 Occipital "
263 Parietal "
264 Temporal "
265 Central "
266 Olfactory "
3 Cortical epilepsy
See also 616.853
5 Sensory functions of convolutions
Convolutions as seat of senses
54 **Sight**
55 **Hearing**
56 **Smell**
57 **Taste**
58 **Muscular sense**
See also 612.885
59 **Touch**
See also 612.88
8 Intellectual functions
Only for physiology of these functions
.826 **Cerebral ganglions, commissures, etc.**
1 Optostriate body and callosum
Or optic thalami, striatum and callosum
2 Conduction in the brain
See also 612.8235
3 Crura or cerebral peduncles Epiphysis Infundibulum
5 Quadrigeminum Optic lobes
7 Cerebellar peduncles or prepeduncles
8 Pons

612.827 **Cerebellum**
.828 **Medulla oblongata or postoblongata**
.829 **Special physiology of central nervous system of invertebrates**
See also 612.8226
1 Regulating effect of ganglia Circular movements (manège)
2 Chain of ganglions Network of nervs, or rete nervosum
3 Reflex movement
Locomotion in respect to physiology of nervous **system**
31 Reflexes proper
32 Rhythm Refractory period
33 Tonicity Tonic reflex
34 Coordination
.83 Spinal cord or myel
.831 **Conduction in the cord**
See also 612.8235
.832 **Excitability of cord**
.833 **Reflex action**
Subdivide like 612; e. g. 612.83317 **Cardiac reflexes**
612.833627 Uterin "
612.83376 Limb reflexes; **knee jerk**
8 Action of superior nerv centers on reflexes
9 Other phenomena of reflex action
91 **Rapidity of reflexes**
92 **Pathology**
93 **Effect of anemia**
94 **Action of poisons on reflexes**
95 **Rhythm in general**
951 Refractory period
96 **Coordination**
97 **Other fenomena**
e. g. reflexes according to nature of impulse: **fatigue, etc.**
.834 **Cord as center of innervation**
.835 **Degeneration and regeneration of cord** **Atrofies**
.84 Physiologic optics Sight
.841 **Fibrous tunics of eye**
1 Cornea Conjunctiva Anterior chamber
5 Sclera
.842 **Vascular tunics** **Iris** **Choroid** **Ciliary body**
1 Iris accommodation Pupillary reflex
See also 612.844 for general papers on accommodation
11 **Pupillometers**
2 Action of nervs and nerv centers on pupil
3 Effects of light
4 Action of chemic substances on iris Atropin **See 615.784**
5 Choroid Eye pigments
6 Ocular circulation Intraocular pressure
61 **Ofthalmometers**

612.843 **Optic nerv** **Retina**
See also 612.8192 2d pair of cranial nervs; optic
1 Physiologic morfology Retinal purple
12 **Ofthalmoscope**
13 **Retinal circulation**
14 " **purple**
15 **Physiologic morfology of retina**
Blind spot, yellow spot
2 Irradiation Simultaneous induction
3 Color sense Chromatic sensibility
301 Theory
6 Miscellaneous theories of color sensation
63 **3-color theory (Young-Helmholtz)**
64 **4-color theories**
642 Color-contrast theory (Hering)
643 Gradation theory (Wundt)
644 Genetic theory (Ladd-Franklin)
647 Zone theories
2 Duplex or duplicity theory (von Kries)
3 Theory of indirect values (Müller)
31 **Color sight**
Power to distinguish colors
For color blindness see 612.8455; 617.75
32 **Sensitivness to color** **Color preferences**
For pathology of chromatic sensibility see 612.8455
34 **Mixture of colors**
35 **Contrast** " "
3501 Theory
16 **Miscellaneous theories of color contrast**
161 Psychologic theory
Deception of judgment (Helmholtz)
166 Physiologic theory (Hering)
352 Simultaneous contrast
353 Successiv "
4 Entoptic fenomena
Purkinje's figures or images, Sanson's images
5 Persistence of retinal impressions
52 **After images or after sensations** **Successiv images**
522 Positiv
523 Negativ or complementary
6 Field of vision Visual acuteness and sensibility
61 **Photometry**
Photometric teknic
62 **Field of vision**
622 Direct vision
623 Indirect vision Perimetry
63 **Visual acuteness and sensibility**
632 Retinal adaptation and fatigue
633 Twilight vision Purkinje fenomenon Purkinje spectrum
Sensibility to contrast
7 Conduction in the brain Perception
71 **Histology of fibrillae** **Center of sight**
72 **Optic perceptions** **Localization of image in space**
721 Binocular and monocular perception
722 Stereoscopy Binocular fusion and rivalry Pseudoscopic vision

612.843723 Perception of distance, size and form
Perception of differences in hight of surface. For movement see 612.8462
01 **Theory**
016 Miscellaneous theories of visual distance
3 Theory of identical points
4 " " projection
5 " " distance as an optic sensation
2 Kinesthetic eye sensations
22 **Accommodation strains**
23 **Convergence "**
3 Parallax
32 **Binocular parallax**
33 **Parallax due to hed movements**
4 Associativ aids
41 **Apparent size**
42 " **brightness**
43 " **rapidity of movement**
44 **Linear perspectiv**
45 **Haze and other atmosferic effects**
46 **Lights and shadows**
47 **Relations among objects in field of vision**
48 **Cooperation of other senses**
49 **Other**
73 **Impression of color suggested by sound, auditus coloratus**
74 **Optic illusions**
741 Primary illusions
2 Illusions of movement
3 Proofreaders illusion
4 Double images
5 Geometric illusions
Of distance, size, direction, form etc
501 **Theories of geometric illusions**
6 Miscellaneous theories
63 Eye-movement theory
64 Perspectiv "
65 Dynamic "
67 Association or confusion theory
52 **Reversible perspectiv**
53 **Illusions of extent**
Müller-Lyer illusion, etc
54 **Illusions of direction and angles; confluxion and contrast**
Poggendorf, Zöllner, twisted cord, etc illusions
55 **Illusions of form**
56 " " **area**
Apparent size of planets at horizon, etc
742 Secondary illusions
743 Mixt illusions
75 **Observations on those born blind**
78 **Degenerations of optic nerv and fibrillae**
.844 **Refractory apparatus Ocular refraction Dioptrics**
See also 612.8421 Iris accommodation
1 Crystallin lens
4 Aqueous humor
7 Vitreous "

612.845 **Functional disorders or pathology of sight**
Blindness etc. See also 617.75 Disorders of vision from medical viewpoint
1 Myopia
2 Hypermetropia
3 Astigmatism
4 Presbyopia
5 Daltonism Color blindness
See also 612.84331 Color sight, 617.75 Disorders of vision
6 Hemeralopia
.846 **Movements of eye**
2 Binocular vision Convergence
For perception see 612.843721
3 Action of 3d cranial or oculomoto nerv
4 " " 4th " " trochlear "
6 " " 6th " " abducent "
8 Strabismus Diplopia
.847 **Palpebral and lacrimal apparatus**
.848 **Tests of visual perception**
.85 Hearing
.8501 Theory
12 Clasification of sounds
122 Tones 123 Vocables 124 Noises
16 Miscellaneous theories of hearing
161 Psychologic theories
166 Physiologic "
1 Resonance or simpathetic vibration theory (Helmholtz)
2 Telefone theory (Rutherford, Lipps)
3 Standing wave theory (Ewald, Lehmann)
4 Advancing wave theory (Hurst)
5 Propeld " " (ter Kuile)
6 Displacement " (Meyer)
.851 **External ear: functions**
.854 **Middle ear**
.855 Tympanic membrane or drumhed Tympanum
.856 Eustachian tube
.857 Bones
.858 **Internal ear**
1 Conduction of sound in internal ear
2 Utricle Saccule
3 Semicircular canals
See also 612.8863 and 616.841 Vertigo
4 Cochlea Corti's organ or fibers Spiral organ
Basilar membrane
5 Acoustic nerv
6 Endolymf Perilymf
7 Acoustic perception Conduction of acoustic excitation in the brain
71 **Auditory acuteness**
712 Tonal gaps and ilands
72 **Auditory center in brain**
See also 612.82555

612.85873 **Subjectiv sensations**
74 **Musical physiology and psychology**
Distinction of tones and quality or tone color (timbre)
742 Tonal caracteristics
2 Pitch
3 Loudness, strength or volume
4 Caracter, quality, timbre, tonc color or brightness
Clang-tint
743 Analisis of tones
2 Simple tones
3 Compound tones or natural harmonics Clang
32 Overtones
33 Partial tones
4 Combination or Tartini's tones
41 1st order
412 Difference or differential tone
413 Summational tone
42 Higher orders
744 Consonance and dissonance: intervals
1 Theories of consonance and dissonance
12 Theory of beats (Helmholtz)
13 " " tonal fusion (Stumpf)
14 Genetic theory (Moore)
745 Melody and rithm
746 Sensitivness to tone Tone preferences
75 **Binaural and monaural hearing**
751 Localization of sound in space Estimation and effect of distance
2 Interaural differences of sound intensity
3 Complexity of pitches
4 Movements of hed
76 **Sensibility of living beings to sound and vibrations**
Otocysts
77 **Pathology Defness etc**
See also 617.8 Diseases of ear
78 **Tests of auditory perception**
8 Auditory reflexes
.86 Smel
See also 612.82556 Seat of smel
.861 **Organs of smel**
.867 **Perceptions Conduction in brain**
1 Olfactory acuteness
2 " center in brain
3 Subjectiv odor sensations
4 Fusion of odors
7 Pathology
8 Tests of olfactory perception
.87 Taste
.875 **Function of lingual nerv**
See also 612.8195
.877 **Function of chorda tympani**
See also 612.81977
.879 **Function of glossopharvngeal nerv**
See also 612.8199

612.88 Touch Tactil sense Equilibrium
.881 **Notion of space**
.882 **Sense of temperature**
.883 **Sense of pressure**
Including all related phenomena; e. g. tickling
1 Esthesiometers
.884 **Sensibility to pain**
.885 **Muscular sense Power sense**
.886 **Sense of equilibrium**
1 Sense of direction and orientation
2 Seasickness
3 Vertigo
See also 612.8583
9 Function of special organs
Function of lateral line of fishes and other special organs of lower animals
.887 **Anesthesia, hyperesthesia, synesthesia**
.89 Sympathetic nervous system
.8903 Trofic action
.8905 Reflex fenomena
.891 **Cervical ganglions and plexus**
.892 **Thoracic " " "**
.893 **Abdominal " " "**
.896 **Action on eyes; iris**
See also 612.8422
.897 **Action on hart**
See also 612.1782
.898 **Action on digestiv tract; alimentary canal**
See also 612.3 and special subdivisions
.899 **Effect on blood vessels**
See also 612.18

613 General and Personal Hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .078, Sanitary Appliances; .08, Collections; .09, History, Description, Reports, etc., divided like 930-999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographic distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.
Including means for giving nutrition, baths, enemata, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns

.33 Microscopic Analysis. For Chemical Analysis, see 543.3.

.34 Biologic Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16 Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics

.39 Other Beverages.

613.4 Cleanliness of Body. Clothing.

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.

.42 Warm.

.43 Cold. For Swimming, see 797.2.

.44 Douche or Shower.

.45 Sea. Salt.

.46 Hot Air. Turkish. Russian. Roman, etc.

.47 Public.

.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.

.49 Care of special parts of body.

.5 Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, ar for convenience groupt together here.

.51 Homes.

.52 Hotels.

.53 Tenements.

.54 Schools. Colleges. See School hygiene, 371.7.

.55 Churches, Theaters, Halls, etc.

.56 Hospitals. Asylums.

.57 Prisons. Reformatories.

.58

.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.

.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operativs, hair pickers, type founders, grocers, etc.

.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.3

.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosivs, etc.

.67 Military Hygiene. Barracks, Camp and Tent Life.

.68 Naval Hygiene. Ship Life.

.69 Hygiene of Travel and Exploration.

613.7 Hygiene of Recreation and Sleep.

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body
For Curativ gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, ar groupt here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 Hygiene of Nervous System.
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131.336 Mental hygiene. See also 178 Temperance

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hashish. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177; Late Hours, 613.79.

.88 Luxury. Privation.
See also Fasting; Famine; Starvation, 613.24

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 253: Asceticism, 248.

.9 Hygiene of Offspring. Heredity.
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also 131 Mental physiology and hygiene, 132 Mental derangements, 136.3 Mental heredity

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture. Eugenics.

614 Public helth

Public hygiene Public sanitation State medicin Preventiv medicin
See also 628, Sanitary engineering; 352.4 Boards of helth
.02 Compends .03 Dictionaries, cyclopedias .04 Essays .05 Periodicals .06 Societies, conventions .07 Education .078 Sanitary appliances .08 Collections .09 History, description, legislation, reports, etc. Divided like 930–999, e. g. 614.0942 Public helth in England

.1 Registration and vital statistics See also 312 Population

.11 Births and birth rates Divided like 930–999

.12 Deths and deth rates
Divided geograficly like 930–999, e. g. Deth rate in England, 614.1242

.13 Mortality at different ages
For life insurance, life tables, biometry, etc. see Life insurance, 368.3 and Life contingencies, 519.5; Longevity, 612.68

.131 Stillbirths

.132 Infant mortality

.133 Mortality in childhood

.134 " " adult life

.135 " " old age

.14 Mortality of sexes, races, etc.

.141 " " the sexes

.142

.143

.144 " " races: colored, white, Indian, etc.

.145 " " city and country

.146 " " different occupations See also 613.6

.147 " from special diseases Causes of deth

.15 Morbidity

.16

.17 Marriage

.18 Divorce See also 173.1 Family ethics

.2 State control of medicin

.21 Medical education and degrees See 610.7; 378.2 Academic degrees

.22 Anatomy and vivisection laws See 179.4 Ethics

.23 Expert testimony and other medico-legal relations
See 340.6 Medical jurisprudence

.24 Registration of physicians, dentists, pharmacists, etc. License to practis

.25 Regulation of medical practis
See 174.2 Professional ethics, physicians

.26 Quackery and malpractis

.27 Nostrums and patent medicins See also 614.353 Adulterations

.28 Sale of poisons See 615.9 Toxicology

.29 Medical police

614.3 Adulterations: inspection of articles liable to affect public helth Pure food laws
Public analysts State laboratories For chemic analysis see 543
.31 Inspection of food For chemic analysis see 543.1; Hygiene 613.2
.311 Sugars Sirups Confectionery
.312 Cereals Starches Bred
.313 Lards Fats Oils See 614.325-6 Butter, oleomargarin
.314 Spices Condiments
.315 Yeast Baking powders Cream of tartar
.316 Fresh food Vegetables, fruits
.317 **Meats Fish (fresh)**
.318 Cand or preservd food Vegetables, fruits
.319 **Meat Fish Oysters (preservd)**
.32 Milk and milk products
.321 **Milk analysis** See also chemistry, 543.2; dairy, 637.1277
.322 **Milk of known purity**
.323 **Milk sold to consumer**
.324 **Cream Skimd milk Condenst milk Buttermilk Kumiss**
.325 **Butter and its imitations**
.326 Oleomargarin
.327 **Cheese and its imitations**
.33 Other articles of food
.34 Inspection of beverages
For chemic analysis see 543.1; hygiene, 613.3
.341 Fermented
.342 **Wine**
.343 **Brewd**
.344 **Beer**
.345 Distild
.346 Fruit drinks: lemonade, shrub, etc.
.347 Tea Coffee Chocolate Coco See also 613.37, Hygiene
.348 Mineral waters Soda water
See also 613.38, Hygiene; 615.79 Therapeutics
.349 Mixt drinks
.35 Inspection of drugs For chemic analysis see 543.4
.351 Officinal or pharmacopeial drugs
.352 Nonofficinal drugs
.353 Empiric or patent medicins See also 614.27 State control
.354 Cosmetics
.355 **Poisonous cosmetics**
.36 Inspection of tobacco
.37 Inspection of pigments, wall and other papers, textil fabrics, toys, etc.

.4 Contagious and infectious diseases: general
.41 Causes and origin
See 589.95 Bacteria, microbes; 616.01 Germ theory of disease
.42 Geografic distribution Climatology
Divided like 930-999
.43 Modes of propagation and communication

614.44 Prevention and restriction See also Ambulances, 614.888
.45 Isolation, lazarettos, etc.
.46 Quarantine, etc.
.461 **Maritime and aeronautic quarantine**
.462 **Inland quarantine**
.463 **Control of rags, etc.**
.47 Protectiv inoculation
.471 **Against smallpox** See also 616.912, Pathology
.472 Variolation
.473 Vaccination
1 Bovine vaccination
2 Humanized vaccination
3 Vaccinal syphilis
4 Revaccination
5 Vaccinisation
6 Revaccinisation
7 Retrovaccination
8 Compulsory vaccination
9 Optional vaccination
.474 Antivaccination
.475 **Against cholera** See also 616.932, Pathology
.476 **" yellow fever** See also 616.928 Pathology
.477 **" hydrophobia Pasteurism**
See also 616.953 Pathology
.478 **Against other diseases**
Divided like 616
.48 Disinfection
Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons, sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.
.481 **Fumigating and other apparatus**
1 Stationary
2 Portable
.482 **Disinfectants Antiseptics Deodorizers**
Treated with reference to public helth. See also Materia medica 615.777 and 615.778
.483 Heat
.484 Chemic disinfectants
.485 Carbolic
.486 Salicylic
.487 Chlorids
.488 Copperas
.49 Epidemics Plagues
Divided like 930-999

.5 Contagious and infectious diseases: special
These heds are for public helth discussions only. For treatment, etc. see Pathology, 616
.51 Filth diseases
.511 Typhoid or enteric fever
.512 Diftheria
.513 Diarrheal diseases
.514 **Cholera**
.515 **Cholera-infantum**
.516 **Dysentery**
.517 **Diarrhea**

614.52 Exanthemata
.521 Smallpox
.522 Scarlet fever
.523 Measles
.524 Rötheln, rubella, rubeola
.525 Chickenpox
.526 Typhus
.53 Malarial fevers
.531 Intermittent fever
.532 Remittent fever
.54 Other contagious and infectious diseases
.541 Yellow fever
.542 Phthisis Tuberculosis
.543 Whooping cough
.544 Mumps
.545 Puerperal fever See also 618.72
.546 Leprosy
.547 Syphilis
.548 Gonorrhea
.55 Parasitic diseases
See also 616.96 Pathology
.56 Diseases communicated from lower animals
.561 Anthrax Charbon
.562 Trichiniasis
.563 Hydrophobia
.564 Glanders
.6 Disposal of the ded
See customs, 393 Treatment of the ded
.61 Burial
.611 Earth burial
.612 Tomb burial
.613 Burials in churches Intramural
.614 Use of coffins
.62 Cremation Crematories
.63 Transportation of the ded
.64 Embalming and disinfection of the ded Use of ice
See 614.48 Disinfection; 615.777 Disinfectants
.65 Effect of cemeteries on helth
.651 By water pollution
.652 " air "
.68 Morgues

614.7 Hygiene of the air and ground Nuisances
See 613.1 Air (Hygiene); 613.6 Hygiene of employment; 628.5 Industrial sanitation
.71 Air pollution by dust and smoke [works
.72 Air pollution by noxious gases, mineral trades, chemic
.721 Carbon compounds
.722 Carbonic oxid, carbonic acid, carburetted hydrogen
.723 Illuminating gases Gas works
.724 Mineral oil refining
.725 Sulfur compounds
.726 Chlorin "
.727 Nitrogen "
.728 Phosphorus "
.729 Other
.73 Air pollution by vegetable trades
.731 Brewing
.732 Distilling
.733 Vinegar making
.734 Sugar refining
.735 Charcoal burning
.736 Varnish making
.74 Air pollution by animal trades
.741 Slaughter houses Abattoirs Fish
.742 Rendering works Boneboiling Tripe and gut cleaning
.743 Pork packing Lard refining
.744 Soap making
.745 Tanning
.746 Glue making
.747 Lampblack
.748 Commercial fertilizers
.75 Storage and handling of noxious and offensiv materials
.76 Other air pollutions See 628 Sanitary engineering
.761 Stables Stable manure
.762 Hog stys
.763 Offal Ded and diseased animals and fish
.764 Vaults Cesspools Water closets, privies, urinals, night soil
.765 Sewers and sewer outlets Sewer gas
.77 Conditions of soil as affecting helth
Topografy Sanitary Surveys
.771 Analysis of soils See 543.7 Chemistry
.772 Soil moisture
Hygiene of natural water courses and of marshes. See 613.14 Hygiene
773 Ground atmosphere See 613.14 Hygiene
.774 Solid constituents of soil
.775 Malarious soils See 613.14 Hygiene
.776 Recovery of soils from pollution

614.78 Air and ground in towns
.781 Laying out of towns and streets
.782 Subways and elevated ways See 628.47 Sanitation of towns
.783 Parks Air spaces
.784 Hight of bildings and proportion of occupiable area
See 614.85 Bilding laws
.8 Protection of human life from accidents, casualties, etc.
Safety appliances
See 613.66 Hygiene of employment
.81 Drowning
.811 Rescue of the drowning
.812 Resuscitation of the drownd First help Pulmotors
.82 Suffocation
By gases, in vaults, mines, etc.; see also 622.8 Mining dangers. By illuminating gases
.83 Explosions Machinery inspection
.831 Manufacture, storage and transport of explosivs and combustibles
See also 662 Chemic technology
.832 Gunpowder
.833 Dynamite, etc.
.834 Inspection of kerosene, etc.
.835 " of illuminating gas
.836 " of electric apparatus
.837 " of steam boilers
.838 " of machinery
.84 Fires
.841 Fire prevention
.842 " detection
.843 " extinction See 352.3 Fire department
.844 Automatic
.845 Chemic extinguishers
.846 Fire engins Water towers See 621.68 Pumping engins
.847 Fire escapes and other apparatus
.848 " exits, etc from public bildings
.85 Industrial safety Bilding laws and inspection
See 614.784 Hight of bildings
.86 Protection of travelers
.861 Travel on land
.862 " " highways
.863 " " railroads
.864 " " water
.865 Lighthouses, buoys, etc.
.866 Pilots
.867 Boats, life preservers, etc.
.868 Rescue of shipwreckt Lifesaving servis
.87 Accidents under other special conditions
Exposure to cold, Hospice of St. Bernard, ski safety, etc.
.88 Aid to injured
.881 Ambulance
.882 Ambulance for contagious diseases See also 614.44
.883 Bed wagon

614.9 Hygiene of animals Veterinary sanitation
.91 Infectious diseases of domestic animals
.92 Parasites of animals See 591.69 Economic zoology
.93 Animal diseases communicable to man See also 614.56
.94 Care and housing of animals
.95 Feeding of animals
.96 Transportation of animals
.97 Methods of slaughtering
.971 Painless extinction of animal life

615 Materia medica and therapeutics

.02 Compends .05 Pharmaceutic journals .06 Pharmaceutic societies
.07 Education, schools of pharmacy .09 History

.1 Materia medica Drugs Pharmacology
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis
.11 Pharmacopœias
.12 Dispensatories
.13 Formularies
.14 Prescription writing Posology
.2 Inorganic and synthetic drugs
Include here synthetic drugs clast according to most important inorganic elements
Divided like 546., e.g. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron.
See also note to 615.7
.3 Organic drugs
See also note to 615.7
.31 Carbon compounds Divided chemicly like 547
.32 Vegetable products Divided botanicly like 580
.33 Organic products Divided by caracter
1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs containing alkaloids 7 Bitters 8 Organic acids
.34 Fixt oils and acids
.35 Ferments: diastase, pepsin, etc.
.36 Organotherapy
.37 Serotherapy Immunology
Opsonic theory; see also physiology, 612.118223
Vaccine therapy; see also public helth, 614.473 Vaccination
.39 Animal products Divided zoologically like 590
.4 Practical pharmacy

.5 Therapeutics Action of medicins in general

.51 Certainty of medicins
.52 Antagonism of medicins
.53 Law of similars Homeopathy
Homeopathic works ar clast with the subjects treated. This hed is for Hahnemann's theory only
.54 Influence of age
Infant therapeutics Therapeutics of old age
.55 Influence of sex
.56 Influence of environment
.57 Influence of idiosyncrasy

615.6 Administration of medicins

.61 By stomach

.62 " rectum

.63 " subcutaneous tissue Hypodermic medication

.64 " lungs Inhalation See also 612.385 Absorption

.65 " veins Transfusion of blood

.66 " serous and mucous membranes Peritoneum, vagina, etc. See also 612.387 Absorption

.67 " skin Baths See also physiology 612.384

.7 Medicins groupt by effects

Treatises on specific drugs, digitalis, ergot, etc. ar clast in the divisio s of materi medica, 615.2-.3: e.g. iron, 615.272: digitalis, 615.32381. But discussions of drug in relation to a specific type of effect may be clast with that effect: e.g. Digitalis as a circulatory stimulant 615.711

.71 Drugs acting on circulatory system

.711 Stimulants
Alcohol, ammonia, digitalis, coffee, ergot

.716 Depressants
Aconite, veratrum group, nitrites

.72 Drugs acting on respiratory system

.721 Expectorants

.726 Errhines Sneezing

.73 Drugs acting on digestiv system

.731 Emetics
Ipecac, mustard, metallic salts, apomorphin

.732 Cathartics
1 Laxativs 2 Salines 3 Purgativs 4 Hydragogs 5 Drastics 6 Mercurials

.733 Anthelmintics

.734 Aids to digestion
1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids antacids

.735 Demulcents, emollients, etc.
Bismuth, oxalate of cerium, etc.

.74 Drugs acting on glandular system

.741 Sialagogs (Saliva)

.742 Cholagogs (Bile)

.743 Diaphoretics (Perspiration)
Pilocarpin, heat, exercize

.75 Antipyretics Antiperiodics
Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold baths. See also 613.41 Baths

.76 Drugs acting on genito-urinary system

.761 Diuretics
Water, citrates, acetates, digitalis, caffein, copaiba

.766 Uterins Oxytocics
Viburnum, ergot, etc.

615.77 External agencies

.771 Irritating

.772 Astringents

.773 Rubefacients

.774 Epispastics Blisters

.775 Escharotics Caustic potassa

.776 Protectiv Emollient
Fats, oils, powders, starch, bismuth, oxid of zinc

.777 Deodorants Disinfectants
See 614.48 Disinfection; 614.64 Disinfection of ded

.778 Antiseptics Germicides

.78 Drugs acting on nervous system See also 615.95 Neurotic poisons

.781 Anesthetics Chloroform, ether

.782 Hypnotics Chloral, bromids

.783 Analgesics Opium

.784 Mydriatics Belladonna

.785 Excitants Strychnin

.786 Depressants Conium

.788

.789 Other drugs
Camfor, valerian, asafetida

.79 Mineral waters See also 613.38 Hygiene; 553.7 Occurrence in nature

.8 Other remedies

.81 Mechanical remedies

.811 Bloodletting Venesection Cupping

.812 Setons and issues

.813 Bandages Ligatures

.814 Acupuncture

.815 Pneumatic aspiration

.82 Manipulation Exercise
Massage, osteopathy, curativ gymnastics. See also hygiene, 613.71 Gymnastics

.83 Imponderable remedies

.831 Light Blue glass

.832 Temperature: heat, cold

.833 Moisture

.834 Climate See also 613.11 Hygiene

.835 Altitude
Decrease of oxygen and increase of nitrogen with increasing elevation

.836 Pneumatic differentiation

.837 Music

.84 Electricity Electrotherapeutics Radiotherapy
See also 537.87 and 621.3915

615.85 Cures
.851 Mind cure Influence of mind on body
Mental condition as affecting disease; occupation as remedy.
See also 131.32 Mental helth
.852 Faith cure Christian science See 265.8 Religion
See also state control of medicin, 614.24; Christian science theolog: 230.95; sects 289.5
.853 Hydrotherapy Water cure
.854 Food cures: grapes, milk, beef, etc.
.855 Thomsonianism Herb doctors
.856 Perkinism Metallic tractors
.86
.87
.88 Patent medicins
.89 Ancient and medieval remedies
Including those of modern uncivilized peoples
.9 Toxicology Poisons
For other relations see Poisons, in Relativ index following Tables
.91 Irritant poisons
.92 Mineral irritants
.921 Acid poisons
.922 Alkalin poisons
.923 Nonmetallic poisons
.924 Phosphorus See also 615.218 Drugs
.925 Metallic poisons
.926 Arsenic See also 615.219 Drugs
.927 Mercury See also 615.258 Drugs
.928 Led For painters colic see 717.97 See also 615.251 Drugs
.929 Copper See also 615.256 Drugs
.93 Vegetable irritants
Hellebore, aloes, croton oil, etc.
.94 Animal poisons
Cantharides, diseased meat, ptomains, tyrotoxicon, etc.
.95 Neurotic poisons
See also 615.78 Drugs acting on nervous system
.96 Cerebral or narcotic poisons Carbonic oxid and acid
.961 Opium
.962 Prussic acid
.963 Cyanids
.964 Alcohol
.965 Ether
.966 Chloroform
.967 Chloral hydrate
.97 Spinal poisons
Nux vomica, strychnia
.98 Cerebrospinal poisons
Aconite, belladonna, lobella
.99 Cerebrocardiac poisons
Digitalis, tobacco

616 Pathology Diseases Treatment

May be subdivided by 0 like 610, if wisht. Use 616.01 for etiology, germ theory, bacteriology, classification of diseases. Use 616.075 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tung 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy, radioscopy, etc. 8 Pathologic anatomy 9 Postmortem examination

.1 Diseases of circulatory system
.11 Membranes of the hart
.12 Hart Angina pectoris
.13 Arteries
.14 Veins
.15 Blood
.2 Diseases of respiratory system
.201 Croup
.202 Hay asthma, hay fever
.203 Influenza, epidemic catarrh
.204 Whooping cough See also 614.543
.205 Coryza, catarrh
.206 Asphyxia
.21 Nose Naso-pharyngeal space
.22 Larynx
.23 Trachea Bronchi Bronchitis Asthma
.24 Lungs
.241 Pneumonia, lung fever
.242 Congestion
.243 Hemorrhage
.244 Abscess
.245 Gangrene
.246 Phthisis, tuberculosis, consumption See also 614.548
.247 Embolism and aneurism of pulmonary artery
.248 Emphysema
.249 Collapse
.25 Pleura Pleurisy
.3 Diseases of the digestiv system
For diseases of teeth see 617.6
.31 Mouth: tung, fauces Sore throat, quinsy, mumps
See also 614.544
.32 Pharynx Esophagus
.33 Stomach Gastritis, dyspepsia, vomiting
.34 Intestins Hernia, diarrhea, constipation, colic
.35 Rectum Anus Piles
.36 Liver Gall bladder Jaundis
.37 Pancreas
.38 Peritoneum Omentum Mesentery Peritonitis
.39 Dietetic diseases
Surfit, starvation, scurvy, dyspepsia

616.4 Diseases of lymfatic system and ductless glands
.41 Spleen
.42 Lymfatics: thoracic duct
.43 Thymus
.44 Thyroid body Goiter, Graves disease
.45 Suprarenal bodies
.5 Dermatology Skin diseases
.51 Inflammatory affections
Diffuse, papular, scaly, nettlerash, hives
.52 Catarrhal, vesicular, pustular Eczema, shingles
See also 614.561
.53 Disorders of sebaceous glands
.54 Hypertrofies Atrofies
Corns, warts, white hair, baldness
.55 New formations Pigmentary changes
Albinism, freckles
.56 Disorders of swet glands
.57 Parasitic diseases See 616.96 Parasitic diseases
.58 Other skin diseases
Chilblain, frostbite, chaps
.6 Diseases of genito-urinary system
For diseases of women, see 618
.61 Kidneys Ducts Bright's disease
.62 Bladder Calculus
.63 Urinary disorders Diabetes
.64 Male urethra
.65 Prostate
.66 Penis
.67 Scrotum
.68 Spermatic cord Testes
.69 Functional diseases of male generativ organs Spermatorrhea, impotence
.7 Diseases of organs of locomotion
.71 Bones (except spine)
.72 Joints (except spine)
.73 Spine Curvature
.74 Muscles
.75 Tendons Fasciæ
.76 Bursæ Sheaths of tendons
.77 Connectiv tissue
.8 Diseases of nervous sistèm Psychiatry
See also 132 Abnormal psychology
.81 Diseases relating to cerebrospinal circulation Apoplexy
.82 Diseases relating to cerebrospinal meninges
.83 Structural diseases of brain and cord

616.84 Functional diseases of brain and cord
.841 Vertigo
.842 Paralysis
.843 Neurasthenia Cronic nervous exhaustion
.844 Spinal irritation
.845 Eclampsia, convulsions See also obstetrics 618.75
.85 Neuroses Psychoneuroses
.851 Chorea
St Vitus dance, Huntington's chorea
.852 Hysteria
Shel shock, etc. See also 132.3
Hypochondria, 132.4
Catalepsy, 135.5
Somnambulism
2 Psychasthenia Obsessional or anxiety neurosis
Obsessions, phobias
3 Dissociation of personality
32 Depersonalization
33 Alteration or transformation of personality
34 Fragmentary personality
Dual, secondary, alternating and multiple personalities
35 Fugues
.853 Epilepsy Narcolepsy
See also 616.898125 Alcoholic epilepsy
.854 Tetanus Lockjaw
.855 Aphasia Alexia Amusia Agraphia Apraxia etc
.856 Anesthesia Hyperesthesia Hypesthesia Paresthesia
.857 Megrim Sick hedake
.86 Neuroses due to special poisons
.861 Alcoholism
See also 132.72 Dipsomania, 616.89812 Alcoholic dementia
.862 Metallic tremor
.87 Diseases of nervs Neuralgia, cramp
.88 Diseases of simpathetic sistem
.89 Special psychoses and syndromes
.892 General paralysis of insane Dementia paralytica
Paresis
.893 Confusional insanity
Mental confusion: acute and primitiv. Delirium: acute, febril collapse, etc. Acute organic reaction types
1 Pathologic intoxication (mania a potu)
2 Delirium tremens
3 Abstinence delirium
4 Traumatic " : immediate, protracted
5 Exhaustion " Exhaustion psychosis
6 Acute hallucinosis
7 " pseudoparanoia
8 Korsakow's psychosis
9 Other

616.895 Manic-depressiv insanity
General unsistematized delusions; affectiv reaction types

1 **Manic type: mania, expansiv psychosis; euphoria**
12 Hypomania
13 Acute mania
14 Delirious mania
15 Cronic "

3 **Alternating, periodic or circular type**
Circular insanity (folie circulaire); insanity of double form; cyclothymia, variability of mood

4 **Depressiv type**
Depressiv psychosis, pathologic sadness and grief, hypochondria, melancholia. See also 132.3
42 Simple retardation
43 Acute depression

5 **Stuporous type** **Depressiv stupor**

6 **Mixt type**
62 Manic stupor
63 Agitated depression
64 Unproductiv mania
65 Depressiv mania
66 Depression with flight of ideas
67 Akinetic mania

7 **Involution melancholia**
See also 132.35 Melancholia

.897 Paranoid reaction types
Partial, sistematized; unopposed, polymorfic diffused delusions; delusional insanity

2 **Paranoia**
22 Original
23 Acquired
24 Abortiv
25 Latent
26 Paranoia querulans Querulous paranoia

3 **Paraphrenia**
32 Sistematic
33 Expansiv
34 Confabulatory
35 Fantastic

4 **Paranoid states** **Paranoid constitution**
Narcissism

.898 Dementia
Cronic organic reaction types

1 **Acute or furious dementia** **Primary dementia**

12 Alcoholic dementia
See also 616.861 Alcoholism
122 Alcoholic deterioration
123 Cronic alcoholism
124 Alcoholic pseudoparesis
125 " epilepsy
See also 616.853 Epilepsy
126 Cronic hallucinosis

13 Traumatic dementia
132 Traumatic constitution
Vasomotor neurosis, explosiv diathesis
133 Post-traumatic mental enfeeblement

616.8982 **Dementia precox and schizophrenic reaction types**
Neuroepithelial dementia, discordant insanity, secondary or terminal dementia. See also 616.895 Manic-depressiv insanity
22 Simple type Schizophrenia simplex
23 Katatonic type Katatonia Katatonic dementia
24 Hebephrenic type Hebephrenia Hebephrenic dementia
25 Paranoid type Paranoid dementia
See also 616.897 Paranoid reaction types
26 Mixt type

3 **Senile dementia**
31 Simple senile deterioration
32 Presenile dementia
33 Senile delirium
Delirious and confused types
34 Presbyophrenia
35 Alzheimer's disease
36 Deprest and agitated type
37 Senile and cronic pseudo-paranoid type
38 Arterioselerotic type
382 Post-paralytic dementia
383 Post-apoplectic "
39 Other

.9 **General diseases**

.91 Infectious diseases

.911 Eruptiv fevers

.912 Small pox See also 614.471 and 614.521

.913 Cowpox

.914 Chickenpox See also 614.525

.915 Measles See also 614.523

.916 Rubella, rubeola, rōtheln See also 614.524

.917 Scarlet fever, scarlatina See also 614.522

.92 Other fevers General works on fevers
See also 612.57 Animal heat

.921 Dengue, breakbone fever

.922 Typhus See also 614.526

.923 Plague

.924 Relapsing fever, famin fever

.925 Cerebrospinal fever

.926 Simple continued fever

.927 Enteric fever, typhoid fever See also 614.511

.928 Yellow fever See also 614.476 and 614.541

.93 Diftheria Cholera Malarial fever

.931 Diftheria See also 614.512

.932 Asiatic cholera See also 614.475 and 614.514

.933 Sporadic cholera

.934 Epidemic diarrhea See also 614.517

.935 Dysentery See also 614.516

.936 Malarial fever See also 614.53

616.94 Septic diseases
.941 Phagedena
.942 Erysipelas
.943 Pyemia
.944 Septicemia
.95 Venereal diseases Hydrophobia, etc.
.951 Syphilis See also 614.547
.952 Gonorrhea See also 614.548
.953 Hydrophobia See also 614.477 and 614.563
.954 Glanders See also 614.564
.955 Horsepox
.956 Splenic fever
.96 Parasitic diseases See also 614.55 Public helth
.961 Animal parasites
See 591.69 Economic zoology; 614.92 Parasites of animals
.962 Entozoa
.963 Trematoda, flukes
.964 Cestoda, tapeworms
.965 Nematoda Round worms, thredworms, etc.
.966 Acanthocephala, thornheded worms
.967 Insecta parasitica Maggots
.968 Ectozoa
1 Insecta parasitica: mosquitoes, gnats, bedbugs, fieas, lice
5 Arachnida parasitica: mites, ticks
8 Suctoria parasitica, leeches
.969 Vegetable parasites See 581.69 Economic botany
.97 Effects of poisons See 615.9 Toxicology
.98 Effects of injuries and climate
.981 Presence of foren bodies
.982 Mechanical injuries
.983 Excessiv exertion and strain
.984 Excessiv venery
.985 Privation
.986 Exhaustion
.987 Chemic agents
.988 Climate
.99 Other general diseases
.991 Rheumatism, rheumatic fever Gout
.992 Tumors
.993 Nonmalignant: cysts, wens
.994 Malignant: cancer
.995 Tubercle
.996 Scrofula Rickets
.997 Myxedema Cretinism
.998 Leprosy See also 614.546

617 Surgery

May be subdivided by 0 like 610, if wisht

.1 Injuries
.11 Burns and scalds
.12 Lightning and electric shock
.13 Contusions and abrasions
.14 Wounds
.141 Incised
.142 Contused
.143 Lacerated
.144 Punctured
.145 Gunshot See 617.99 Military surgery
.146 With lodgment of foren bodies
.147 With complete separation of parts
.148 Poisond See 615.9 Toxicology
.15 Fractures
.16 Dislocations
.17 Sprains
.18 Asphyxia

.2 Results of injuries
Constitutional effects and other complications. See also 616.94 Septic diseases
.21 Shock
.22 Inflammation
.23 Abscess Sinus Fistula
.24 Ulcers Sores
.25 Mortification Gangrene
.26 Traumatic fever
.27 Tetanus See also 616.854

.3 Orthopedic surgery Deformities
For convenience the whole subject of deformities is clast here, tho many of them hav no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities; 611.012 Teratology; 613.91 Congenital defects
.31 Incomplete development or growth
Divided like 611 Anatomy
.32 Incomplete coalescence of parts: harelip
.33 Coalescence of parts
.34 Extension of commissure (Apparent duplication)
.35 Coalescence of fetuses Siamese twins
.36 Supernumerary parts or organs: extra fingers or toes
.37 Disproportionate growth of parts
.38 Transposition or displacement of parts
.39 Congenital distortions, including talipes, club foot

617.4 **Surgical operations**
.41 Circulatory system
.42 Respiratory system
.43 Digestiv system
.44 Glandular and lymfatic system
.46 Genito-urinary system
.47 Motor and integumentary system
.48 Nervous system
.5 **Regional surgery**
.51 Hed Trephining
.52 Face Mouth See 617.6, Dentistry; 617.7, Eye; 617.8, Ear
.53 Neck Throat
.54 Chest
.55 Abdomen
.56 Pelvis
.57 Upper extremities Artificial arms, hands, etc.
.58 Lower extremities Artificial legs, feet, etc.
.6 **Dentistry Diseases of teeth**
.61 Diseases of dental pulp
.62 Diseases of dentin and cementum
.63 Diseases of dental periosteum
.64 Malposition and malformation of teeth
.65 Odontalgia, toothake
.66 Extraction of teeth
.67 Stopping teeth
.68 Transplanting teeth
.69 Artificial teeth
.7 **Ophthalmic surgery Diseases of the eye**
.71 Conjunctiva Cornea Sclerotic Ophthalmia
.72 Iris Choroid Ciliary body
.73 Optic nerv Retina
.74 Lens and its capsule Vitreous humor Affections of the globe Cataract
.75 Disorders of vision
Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also physiology, 612.845
.76 Muscular apparatus Lacrimal apparatus
Strabismus, squint
.77 Eyelids
.78 Orbit and neighboring parts
.79 Artificial eyes

617.8 **Diseases of the ear**
.81 Affections of external ear
.82 Auricle
.83 Auditory canal
.84 Affections of middle ear
.85 Membrana tympani
.86 Eustachian tubes
.87 Mastoid cells
.88 Affections of internal ear
.89
.9 **Operativ surgery**
See 615.781 Anesthetics
.91 Armamentaria Surgical instruments
.92 Orthopedic appliances Splints. trusses, etc.
See 617.3 Orthopedic surgery
.93 Surgical dressings
.94 Amputation Resection
.95 Plastic surgery
.96
.97
.98
.99 Military surgery

618 Diseases of women and children

.1 **Gynecology Diseases of women**
.11 Ovary
.12 Fallopian tube
.13 Periuterin diseases
.14 Uterus and cervix
.15 Vagina
.16 Vulva
.17 Functional and symptomatic disorders
Diseases of menstruation Leucorrhea Sterility
.18
.19 Diseases of brest

618.2 Obstetrics

.21 **Pregnancy Physiology**
.22 Diagnosis Signs of pregnancy
.23 Duration
.24 Hygiene Management
.25 Multiple pregnancy: twins, etc.
.3 **Pathology of pregnancy**
Diseases of pregnancy and their treatment
.31 Ectopic gestation Extra-uterin pregnancy
.32 Pathology of ovum
.33 Deth and retention of fetus
.34 Pathology of fetal appendages
.35 Decidua
.36 Placenta
.37 Amnion
.38 Umbilic cord
.39 Abortion Miscarriage Stillbirth Molar pregnancy
See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law
.4 **Parturition Labor Physiology**
.41 Mechanism of labor
.42 Presentations Positions
.43 Clinic course and phenomena
.44 Conduct of normal labor Management
.5 **Pathology of labor**
Abnormal labor from faults
.51 of powers Anomalies of expellent forces
.52 of passages Mechanical obstacles to expulsion of fetus
.53 of child Abnormalities of fetus See 617.3 Deformities
Complications
.54 Hemorrhage
.55 Rupture or laceration of genital tract
.56 Retention of placenta
.57 Inversion of uterus
.58 Prolapsus funis
.59 Other complications

618.6 **Puerperal state Physiology**
Management, including care of child
.7 **Pathology of puerperal state Puerperal diseases**
.71 Diseases of lactation: milk fever, mastitis, etc.
.72 Puerperal fever See 614.545 Public helth
.73 Metritis Peritonitis See also 616.38 Cellulitis
.74 Septicemia See also 616.944 Pyemia See also 616.943
.75 Convulsions See 616.845 Eclampsia
.76 Puerperal mania See also 132.1951 Manic insanity
.77 Phlebitis Venous thrombosis Phlegmasia dolens
See 616.14 Diseases of veins
.78 Other puerperal affections
.79 Sudden deth after delivery
.8 **Obstetric operations**
81 Application of lever and forceps
.82 Version
.83 Embryotomy
.84 Dilatation of os and cervix
.85 Symphyseotomy
.86 Cæsarian section
.87 Removal of placenta
.88 Induction of labor Removal of ovum
.89 Intra-uterin injections Antiseptics in midwifery
.9 Diseases at special developmental periods
.92 **Pediatrics Diseases of children**
.97 **Geriatrics " " old age**

619 Comparativ medicin Veterinary

.1 **Horses**
.2 **Cattle**
.3 **Sheep, goats**
.4 **Swine**
.5 **Poultry**
.6 **Birds**
.7 **Dogs**
.8 **Cats**
.9 **Other**

620 Engineering

See also 690 Bilding; 721 Architectural construction

SUMMARY

620.1 Applied mechanics Engineering materials
621 **Mechanical engineering**
.1 Steam engineering
.2 Hydraulic engins or motors
.3 Electric engineering
.4 Heat, air and gas engins, etc.
.5 Pneumatic machinery Refrigerating machines
.6 Blowing and pumping engins
.7 Mills Factories Engineering works
.8 Millwork Hoisting and conveying machinery
.9 Machine tools
622 **Mining engineering**
623 **Military and naval engineering**
.8 Naval architecture
624 **Bridges and roofs**
625 **Railroad and road engineering**
626 **Canal engineering**
627 **River, harbor and general hydraulic engineering**
628 **Sanitary engineering**
629 **Other engineering industries**

.01 Statistics
.02 Quantities and cost
.03 Contracts and specifications
.04 Designs and drawings
.05 Executiv
.06 Working and maintenance
.07 Laws and regulations
.08 Patents
.09 Reports
.1 **Applied mechanics Engineering materials**
Class here general works on materials with reference to their fitness in engineering See also 691 Bilding materials
.11 Strength of materials General theory
General works considering various materials. For particular materials see 620.12–.19 Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112
For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1
.111 General
This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

620.112 Tests Factors affecting strength
Kinds of tests. Directions for making various tests, laboratory manuals
See note to 620.11
1 General: influence of temperature, selection of test pieces, etc.
2 Corrosion Wethering Protection against deteriorating influences
3 Elastic limit tests: plasticity, fatigue, deformation
See also 620.11246 Repeated stress
4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wisht, subdivide farther as follows:
41 Tensil tests
42 Compression tests
43 Torsion "
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests
Crystallization and formation of cleavage planes
6 Hardness tests
7 Special tests
Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Colums, bilt colums Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
Riveted joints of plates
88 Wire Wire rope Cables Hawsers
89 Other forms
9 Other tests
.12 Tests of timber See note to 620.11
.13 Stone Cement Concrete
.132 Stone
.135 Cement
.136 Concrete
.137 Reinforced concrete
.139 Other: artificial stone
.14 Brick, tile, glass, etc.
See also 666.1 Manufacture of glass, 691.6 Glass as a bilding material
.15 Masonry adhesivs
Cement, mortar, plaster of paris, etc. Sec also bilding materials 691.5 Lime, plaster, cement
.17 Iron and steel
.18 Other metals Uze as general number for metals
.19 Other materials
.195 Mineral: asbestos, mineral wool
.196 Asphalt Tar
.197 Vegetable: paper, hemp, etc.
.198 Animal: hair, hide, bone, etc.
.199
.2 **Compends Handbooks** Kent, Trautwine
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Study and teaching Instruments**
.8 **Tables and calculations**
.9 **History of engineering**

621 Mechanical engineering

May be subdivided like 620.0 and by form numbers

.1 Steam engineering

Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18

.101 Applied thermodynamics
Theory and use of steam in steam engin General energy considerations
Steam economy

1 General
Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197

.11 Mechanism of steam engin Design of engin parts

.111 General

.112 Types of engins: structural

Reciprocating engins in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other

1 Primitiv
21 Single acting
22 Double acting
3 According to transmission of motion
32 Direct connected
33 Indirect: beam connected
4 According to position
42 Horizontal
44 Vertical
45 Oscillating
46 Inclined
5 According to terminal pressure
52 Condensing
In early period called 'low pressure'
53 Noncondensing
In early period called 'high pressure'
6 According to expansion
61 Single expansion
62 Compound
63 Double expansion: cross compound
64 " " tandem "
65 " " angle "
66 Triple expansion
67 Quadruple expansion
9 Other types
95 Steam turbins
Better clast 621.165
96 Rotary engins
Better clast 621.166

.12 Marine engins

For propulsion see 623.8 Naval architecture

121 General

See also 621.11 and 621.18

.122 Types of marine engins

1 Primitiv
Inventions of Papin, Perier, Fulton, Stevens, etc.
2 Beam and side lever engins
4 Horizontal, inclined, vertical engins
5 Oscillating
8 Launch engins
9 Other special engins

.123 Marine steam turbins

See also 621.165

621.13 Locomotivs

.131 Theory of the locomotiv

1 Adhesion Tractiv force Horsepower
2
3 Tests

.132 Types

Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134

1 Primitiv forms
2
3 Types according to distribution of wheelbase and load
Exprest by Whyte nomenclature for wheel combinations
5
6 Types according to purpose
62 Freight or goods engins Hog engin
63 Yard, switch or shunting engins
65 Passenger engins
67 Mountain "
68 Mining "
69 Other special locomotivs
8 Peculiar types
Combined 'engin and coach wagon'
9 Types in different countries
Subdivided like 940–999; e.g. English locomotivs 621.132942

.133 Locomotiv boilers Production of steam

Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.194

1 Combustion Fuels Petroleum Fuel consumption
See also 621.18357
2 Grate and ashpit Firebox Stays
See also 621.1835
3 Shell and tubes
4 Smokebox and stack Spark arresters
See also 621.1838
5 Exhaust pipe
6 Dome
9 Miscellaneous fittings
Gage cocks, safety valvs, whistles, pumps, injectors, etc.

.134 Engin of the locomotiv

1 Driving mechanism Cylinders, pistons, rods
2 Steam distribution Valvs and valv gears
22 Special types of valvs and valv gear
3
4 Compound principle
Distribution in compound locomotivs
5 Lubrication of locomotiv
9 Other parts of locomotiv: throttle, etc.

.135 Running gear

.136 Tenders

1 Design, weight, brakes, etc.
2 Appliances
3 Taking water without stopping; track tanks; water scoops

.139 Miscellaneous parts

Cowcatcher or pilot, headlight, bell, sandbox

621.14 Traction engins Road locomotivs

Selfpropelling engins for hauling over roads or ground, or doing other work by locomotion. For railway engins see 621.13. For stationary hauling engins see 621.162

Hauling may be accomplisht either by engins applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engins (621.14) over ground or roads; or by engins applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)

.141 Theory General

.142 Structural types

.143 Boilers

Better clast in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engins

.144 Types Traction engins for special uses

.145 Compressing machines Steam rollers

.146 Agricultural: plows, reapers, etc.

.15 Portable engins

Engins that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engms and other pumping engins see 621.64

.151 Theory General

.152 Types, structural, etc.

.153 Boilers

Better clast in 621.18423. If used, limited to discussion ot those suitable to portable engins

.154 Portable engins for special purposes

Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engins; 627.7 Dredges

.156 Agricultural: threshers, etc.

.159 Semistationary engins Various types

.16 Stationary engins

Engins fixt in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

.161 Theory and general

.162 Types by use: hauling, dredging, etc.

For pumps see 621.64. For types clast by engin mechanism see 621.164

.163 Stationary boilers

Better clast in 621.18424 with only reference here

.164 Types according to characteristics of engin mechanism or steam distribution

When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engins 621.1644 rather than 621.1647 Each type may be subdivided like 621.11· e.g. vertical throttling engins 621.1642244

1 General
2 Throttling engins
3 Automatic shaft governor engins
4 Releasing gear (Corliss) engins Drop cutoff
5 Single acting engins: Westinghouse or Willans type
6 Simple engins
7 Compound engins, triple expansion, etc.

621.165 Steam turbins

See also 621.123 Marine steam turbins

1 **Theory**
11 Methods of calculation
12 Vanes and buckets
13 Guide vanes and nozles
14 Stresses in rotor or disc
15 Windage
2 **Types**
22 Velocity turbins
23 Pressure turbins
24 Combined velocity and pressure turbins
3 **Construction Details of design**
32 Vanes Buckets
33 Guide vanes Nozles
34 Rotor Discs
35 Valvs, governors, safety devices
36 Thrust balancing
37 Mass "
38 Casing, etc.
39 Bearings, etc.

.166 Rotary engins

.169

.18 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

.181 General

.182 Fuels Combustion

2 **Fuels for boiler heating**
For fuels in general and fuel analysis see 662.6
22 Solid fuels: coal, lignite, wood, sawdust, peat
23 Liquid fuels: tar, petroleum, alcohol
24 Gaseous fuels: gas from blast furnaces, coke ovens: natural gas
25 Composit fuels: city refuse, coal dust, trash
3 **Fuel consumption**
Practical experiments with a single fuel
4 **Comparativ consumption**
Practical experiments with various fuels

.183 Furnace Draft

1 **General**
Heating and grate surfaces
2 **Types of furnaces**
5 **Furnace parts and construction details**
52 Grates
53 Stationary grates
54 Shaking, dumping and step grates
55 Ashpits Furnace doors
57 Burners for liquid fuel
6 **Mechanical stokers**
62 With traveling grate
63 " rocking "
64 " step grate (Roney grate)
65 " plunger
66 " screw
7 **Other appliances**
77 Pulverized fuel appliances
78 Fuel and ash conveyers Ash removers
See also 621.86 Hoisting and conveying machinery
8 **Chimneys Stacks Draft appliances**
Smoke consumers. For smoke prevention see 621.1941 Firing
82 Natural draft Dampers Uptakes
84 Induced draft
85 Forced draft

621.184 Boilers For boiler plants see 621.19
1 General
13 Boiler economy Tests Feedwater
2 Types
22 Marine
23 Locomotiv, traction, portable
24 Stationary
25 Firetube boilers (tubular)
252 Internally fired
253 Externally "
26 Water tube boilers (tubulous)
27 Flash generators Instantaneous vaporizing boilers
5 Boiler construction Setting Parts
52 Shell Heds Tubesheets Domes Drums
Riveted joints, staying and bracing
53 Tubes Ferules Rings
54 Casing
55 Inspection and cleaning parts: man and hand holes, cleanouts, covers
56 Setting and hanging
57 Foundations: masonry, flues, etc.
7 Boiler accessories
72 Water gages, floaters, gage glasses, warning whistles
73 Pressure gages, manometers, safety valvs
79 Other: air cocks and blowout valvs, zincs, steam collectors
.185 Steam transmission and distribution Piping
1 General; laws of flow, condensation, friction
3 Connections; mains, auxiliary piping
4 Valvs Stop, safety, reducing Pressure regulators
5 Drains and traps Receivers and distributing valvs
6 Covering Insulators
Nonconductors for high, low and medium temperatures
7 Joints and cements Expansion joints
8 Utilization of exhaust steam See also 697.5 Steam heating
.19 Steam boiler and power plants Central stations
See also bilding, 697.5 Steam heating; and Boiler, Boilers in Relativ index
.191 General
.192 Arrangement and housing of apparatus
5 Provision for enlargement
.193 Care and management of steam apparatus
.194 Boilers
1 Firing
2 Feeding
Put here general discussion of feeding and feedwater appliances
For separate description of appliances see 621.197
3 Treatment of feed water: purification, softening
4 Scale prevention Incrustation
7 Inspection Tests Rating
.195 Engins: oiling, packing, adjusting
.196 Duration Wear
5 Corrosion
.197 Steam plant accessories Economic appurtenances
2 Feedwater appliances
Tanks, heaters, economizers, filters, purifiers, regulators
3 Pumps Injectors Return traps
4 Separators
5 Superheaters
6 Condensers and cooling towers
62 Surface condensers
63 Jet condensers
64 Cooling towers
67 Condenser accessories
7 Instruments
Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.

621.2 Hydraulic engins or motors
Industrial use of water as motiv power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors
For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532
.21 Water wheels
Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts
.22 Overshot or bucket wheels Brest wheels
.221 Overshot wheels of low velocity
.222 Overshot wheels of high velocity
.223 Brest wheels Fairbairn wheels
.224 Sluice gate or Sagebien wheels
.23 Undershot or impulse wheels and floating wheels
.231 Ordinary undershot wheels
.232 Wheels with curvd vanes or buckets Pelton wheel
.233 Vertical impulse wheels
.234 Current suspension wheels
.235 Floating wheels
.24 Turbins
See also 621.165 Steam turbins
.241 General: parts (e.g. distributors, buckets, guide vanes) regulators
.242 Reaction or pressure turbins
.243 Outward flow
Early forms: Barker's mill
.244 Inward flow
.245 Downward flow
.247 Impulse or Girard turbins
.25 Water pressure engins Accumulators
.252 Hydraulic pumps
.253 Piping for high pressure
.254 Accumulators
.26 Hydraulic machinery and appliances
For theory see 532.81
.262 Funicular engins Hydraulic tackle
.263 Hoists Elevators Cranes
Class preferably in 621.86; i.e. purpose outweighs motiv power
.264 Special handling and lifting machinery for steel works, etc.
.266 Presses Forging and stamping machines
.267 Accessories: injection pumps
.269 Mining, tunneling and other hydraulic appliances
Hydraulic giant, Brandt's hydraulic gun
.27 Hydraulic rams
For theory see physics 532.83
.272 Lifting rams Montgolfier ram, Bolle ram, etc.
.273 Pumping rams Leblanc ram
See also 621.64 Pumps
.274 Compressing rams Sommelier ram
.29 Flood gates Dams Mill sluices Hed and tail races
Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications; 004 Designs and drawings; 005 Executiv; 006 Working and maintenance; 007 Laws and regulations; 008 Patents; 009 Reports
May also be subdivided for form with 0 like 620.1–.9

SUMMARY

621.31–7 Hevy current engineering
- .31 Generation of electricity
  - .311 General
  - .312 Central stations
  - .313 Dynamoelectric machinery
  - .314 Stationary induction apparatus
  - .315 Electrostatic apparatus
  - .316 Accessories and parts
  - .317 Control and central station wiring
  - .319 Transmission
- .32 Electric lighting
- .33 Electric traction
- .35 Voltaic cells and batteries
- .36
- .37 Electric measurements and testing
- **.38 Weak current engineering**
  - .382 Telegrafy
  - .384 Wireless communication
  - .385 Telefony .388 Transmission of images
- .39 Other applications of electricity

621.31–.37 Hevy current engineering

.31 Generation of electricity Dynamoelectric machinery Transformers Transmission

.311 General

.312 Central stations: metropolitan, rural

Divided by 001–009 like 621.3 with the following additions to 006
006 Working and maintenance
- 4 Operation and running
- 5 Regulation and control
- 7 Repairs and renewal
  - Administrativ point of view; a specific repair belongs with the part repaird
- 8 Testing

13 **General central stations**
Combined power, traction, light, etc. stations

132 Steam driven
133 Gas "
134 Hydraulic
135 Composit

2 **Stations for lighting only**
Divided by source of power like 621.31213

3 **Stations for tractiononly**
Divided like 621.31213

5 **Storage battery pressure regulating equipment**

6 Substations
63 Transformer substations
64 Converter "
65 Accumulator "

621.313 Dynamoelectric machinery
- 1 **General; construction, installation**
- 2 **Direct or continuous current machinery**
  - 21 Theory
  - 22 General types
  - 23 Continuous-current generators
    - 2 Series wound 3 Shunt wound 4 Compound wound
  - 24 Continuous current motors
    - Subdivided like 621.31323 above
    - 245 Constant speed motors
    - 246 Multispeed motors
    - 247 Adjustable speed motors
    - 248 Varying " " (railway motors)
  - 25 Continuous-current converters
  - 26 Dynamotors and motordynamos
  - 27 Compensators or balancers
  - 28 Continuous-current boosters
  - 29 Other
    - 291 Acyclic or homopolar machines
- 3 **Alternating-current machinery**
  - 32 General types of alternating current machinery
    - 321 Single phase machinery
    - 322 2 " "
    - 323 3 " "
    - 325 Other polyphase machinery
  - 4 Synchronous machinery
    - 41 Theory
    - 42 General types
    - 43 Alternating-current generators
    - 44 Synchronous motors
  - 5 Aiternating-current converters
    - 51 Theory
    - 52 General types Description
    - 53 Synchronous converters
    - 54 Phase converters
    - 55 Frequency converters
    - 56 Double-current generators
    - 57 Motor converters
  - 6 Asynchronous machines
    - 61 Theory
    - 62
    - 63 Induction generators
    - 64 " motors
    - 65 Series alternating-current motors
    - 66 Repulsion motors
    - 67 Frequency converters
    - 68 Phase converters
  - 7 Rectifying apparatus
    - 72 Mechanical rectifiers
    - 73 Arc "
    - 74 Electrolytic "

621.314 Stationary induction apparatus
1 **Theory**
2 **General types and description**
3 **Transformers**
31
32 Constant-current transformers
33 Constant-potential transformers
34 Phase-changing transformers
38 Meter transformers
4 Auto transformers
5 **Potential regulators**
51 Compensator potential regulators
52 Induction " "
53 Magneto " "
6 **Reactors or choke coils**
7 **Induction coils**
.315 Electrostatic apparatus: condensers
.316 Details of electric machinery Parts
Armatures, field cores, etc.
.317 Central station wiring Control devices and switchboards
For meters and mesuring instruments see 621.37
1 **General**
2 **Panels**
22 Generator panels
23 Motor "
24 Feeder "
25 Transformer "
26 Converter "
27 Lighting "
28 Accumulator "
3 **Switches**
31 General
32 Knife switches
33 Dial "
34 Plug "
35 Oil "
36 Circuit breakers
4 **Rheostats and control devices**
5 **Signal devices**
6
7 **Barriers and compartments**
8 **Station protectiv devices (fuzes, lightning arresters, etc.)**
.318 Manufacturing processes
Processes peculiar to electric machinery and apparatus: e.g. insulating, varnishing, baking, armature stamps and dies

621.319 Transmission of electric energy
Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.332
1 **General**
12 **Systems**
122 Direct or continuous current systems
Including 2 wire systems
123 3 wire (or Edison) and other
129 Other direct current systems
13 Alternating current systems
131 Single phase systems
132 2 phase (or quarter phase) systems
3 3 wire system
4 4 " "
133 3 phase systems
2 Delta or mesh connections
3 Star or Y connections
139 Other polyphase systems
15 Composit systems
Direct and alternating current combined
2 **Lines and conductors**
For local wiring see specific application; e.g. electric light wiring 621.328
21 General
Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telefones see 621.385–7
22 Overhed or aerial lines
222 Systems
223 Poles: foundations, guys, etc.
224 Cross arms Pins
225 Towers
23 Underground lines
232 Systems
233 Condits
234 Manholes
3 Cables and conductors Insulating materials
32 Uninsulated conductors Bare wire
33 Insulated " Wire and cable
34 Cables
37 Insulating materials
Leakage Influence of chemic composition
4 Insulators
8 **Protectiv devices**
82 Line lightning arresters
For protection of central stations see 621.3178

621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheds below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for mesuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321 General

.325 Arc lighting

Including systems and lamps

1 General: efficiency, cost, etc.

2 **Constant-current or series systems**

3 **Constant potential or parallel systems**

4-5 **Arc lighting according to**

4 Type of arc

If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254

42 Open arc

421

422 " " direct current

423 " " alternating current

43 Inclosed arc

431

432 " " direct current

433 " " alternating current

5 Form of current

If emphasis is on type of arc, class in 621.3254

52 Direct current

521

522 " " open arc

523 " " inclosed arc

53 Alternating current

531

532 " " open arc

533 " " inclosed arc

6 **Composit electrode arcs**

Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs

7 **Details Accessories**

Arc light carbons

8 **Applications**

For welding see physics 537.85, and metallurgy 669

" therapeutic applications see 615.84 and 621.3915

82 Searchlights

.326 Incandescent lighting

Including lamps and systems

1 General: efficiency, cost, etc.

2 **Systems (Edison 3 wire system)**

3 **Carbon filament lamps**

31 Metalized filaments

32 Other carbon filaments

4 **Metal filament lamps**

41 Platinum filaments

42 Tantalum "

43 Tungsten "

44 Osmium "

45 Other metal filaments

5 **Glowers of other materials**

53 Nernst lamps

621.327 Incandescent vapor lighting and lamps Other electric lighting

3 Vacuum or incandescent vapor lamps

4 Mercury vapor lamps

For mercury rectifiers see 621.3137

5 Carbon vapor lamps Moore lamp

7 Vacuum lamps for special radiations: Crookes tubes, etc.

.328 Apparatus at servis end of line

1 Underwriters requirements

National electric code

2 House wiring

3 Panels

4 Fuzes

5 Insulators, etc.

6 Meters

See also 621.37 Electric mesurements and testing

7 Switches

8 Protectiv devices

9 Other apparatus

.33 Electric traction

See 625 for construction of route; 656 for business management, maintenance; 654 for communication and signals; 699 for car bilding; 725.3 for architecture of stations, terminals, carsheds, shops, round houses, etc. This number is concernd properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

.331 General

2 **Systems**

4 Systems according to current

42 Direct current

43 Alternating current

431 Single-phase

432 2 phase

433 3 phase

439 Others

5 Systems according to delivery of power

52 Trolley systems

53 Overhed trolley

54 Underground trolley

56 Third rail systems

562 Unprotected third rail

564 Protected " "

.332 The line (including track)

1 **General**

Interaction of parallel lines, heat losses, etc. ar better clast in 621.31921

17 Feeders and return systems

2 **Overhed wire Trolley lines**

23 Catenary suspension

25 Trackless trolley

3 **Third rail**

5 **Underground conductor or contact**

6

7 **Accessories**

9 Other types of line

.333 Track

1 General

16 Deteriorating influences

167 Electrolysis **Leakage**

2 **Rails**

4 **Bonding**

621.334 Rolling stock
For nonelectric rolling stock see 656 for administration, 699 for construction
2 Locomotivs
3 Motor tramcars
4 Accessories and parts Control systems
Motor, controller, current collecting devices, etc. Multiple unit control
5 Locomotiv and car wiring
7 Running gear and other nonelectric details

·35 Chemic electricity Voltaic cells and generators
Primary and secondary

·351 General
E.m.f, counter e.m.f. polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

·352 Parts and accessories of cells and accumulators
1 Containers: jars, trofs. vats, etc.
2 Electrodes and their accessories: positiv and negativ plates or elements
Grids, supporting frames, insulating rods, etc.
3 Diaframs and partitions
4 Electrolytes Depolarizers Packing
5 Circulators Condits and piping
6 Connections Terminals Binding posts
7 Regulating apparatus
8
9 Other apparatus

·353 Primary cells
See also 537.5 Voltaic electricity; 541.37 Electrochemistry
1 General
3 Single fluid
4 Double " Hevy current cells
5 Open circuit or nondepolarized
6 Closed circuit or depolarized
7 Accessories and parts
8 Classification according to use or operating methods

·354 Accumulators or storage batteries
Secondary cells and batteries
1 General
18 Care and handling of accumulators
7 Accessories and parts

·355 **Led accumulators**
1 General
18 Care and handling
2 Naturally formd: Planté type
3 Artificially formd: Faure type
4 Combined Planté-Faure types
5 Other led accumulators
52 Complex oxid types
55 Led element accumulators
56 Copper led "
57 Zinc " "
58 Cadmium " "

·356 **Alkalin accumulators**

·357 **Other types of accumulators**
Thallium, gas, etc.

·358 Other classifications of accumulators
According to use or operation

·359 Other topics pertaining to chemic generation of electricity

·36

621.37 Electric mesurements, meters and testing

·371 General
Tariffs may be clast here, tho better put in 654

·372 Standards Calibration of instruments

·373 Meters General types
Recording meters. See also special meters, 621.374
Prepayment meters. See also special meters, e.g. 621.3745 Watt nour

·374 Special meters and mesurements
2 **Resistance meters: inductance, capacity**
Wheatstone bridges, ohmmeters, resistance boxes
3 **Potential meters: voltage**
Voltmeters, electrometers, standard cells
4 **Intensity meters: current**
Galvanometers, ammeters, coulometers, Ampère-hour meters
5 **Quantity or work meters Watt-hour meters**
6 **Power meters Watt meters**
7 **Frequency meters Oscillografs**
9 **Other meters and mesurements**
91 Phase meters Power-factor meters Synchronizers

·379 Other electric mesuring instruments
For other than electric mesurements; e.g. electric thermometers

Weak current engineering

·38 Electric communication: telegrafy, telefony, wireless
Libraries hav too much material clast in 654 to make it practicame to abolish that number for construction and instruments; but for electric engineers and new libraries preferring it, the detaild technical classification is developt here.
For overhed or underground lines see 621.3192

·381 General

382 Telegrafy Systems
When systems and instruments conflict, classify according to systems
For business administration, see 654; for wireless see 621.384

15 **Codes**
152 Morse
153 Continental
154 Phillips (press code)
2 **A B C, dial, needle telegraf, etc.**
21 Early experimental forms
22 A B C
23 Dial
24 Needle
25 Pointer
29 Other
3 **Hand operated code telegrafy**
31 Simplex
311 Open circuit
312 Closed circuit
32 Duplex
321 Differential duplex systems
322 Stearns duplex
323 Polar duplex
325 Bridge duplex systems

621.38234 Quadruplex
35 Multiplex
36 Synchronous multiplex: Delany
37 Harmonic " Gray
4 Automatic code telegrafy High speed sistems
41 Electrochemic automatic: Bain, Morse
44 Ink recording or embossing
45 Wheatstone
46 Pollak-Virag
47 Telepost (Delany)
5 Printing telegraf
51 Tape printing: stock tickers
53 Other tape printing: Hughes
55 Page printing: Buckingham, Murray, Baudot
57 Multiple page printing: Rowland
6 Writing telegrafy
Transmitting and recording caracters while being written; Gray's telautograf
7 Facsimile telegrafy
Sometimes cald fototelegrafy
8 Submarine cable telegrafy
9 Other wire sistems
94 Induction telegrafy; from moving trains, etc
95 Combined telegrafy and telefony Fantom circuits

.383 Telegraf instruments
1 Transmitting: keys, senders etc
2 Intermediate and accessory: relays, repeaters, switches
21 Relays
22 Differential relays
23 Polarized "
24 Repeaters, for simplex; Milliken, Ghegan, Toye etc
25 " " duplex or quadruplex
26 'Half' repeaters
27 Switches and distributing apparatus
28 Protectiv apparatus
29 Miscellaneous telegraf accessories
3 Receiving instruments
Sounders, recorders etc. Subdivided, if wisht, like 621.3824-8

.384 Wireless electric communication: telegrafy, telefony Radio

Following subdivisions by 0003 may be uzed thruout 621.384 as needed. 621.384 may also be divided by 01 like 620.1. For full list of form divisions see Table 2 after Relativ index

00031 Statistics
32 Quantities Costs
33 Contracts Specifications
34 Designs Drawings
35 Executiv Administrativ
36 Working Maintenance
363 Personnel
Divided like 331
364 Operation Running
365 Regulation Control
367 Repairs Renewals
Administrativ point of view: a specific repair belongs with part repaird
368 Testing
37 Laws Regulations
38 Patents
39 Reports

621.3841 **General questions Radio principles**
11 Radio waves
111 Caracteristics
112 Propagation
113 Polarization
114 Radiation
115 Transmission fenomena
1 **Fading**
2 **Daily and seasonal variations**
3 **Directional variations**
4 **Ionization Heaviside layer**
5 **Meteorologic influences**
Geophysical and cosmic effects
51 Atmosferic currents Winds
52 Temperature
521 Arctic and antarctic radio
522 Radio in temperate regions
523 Tropic radio
53 Elevation
54 Barometric pressure
55 Storms, aurora borealis, etc
56 Eclipses
57 Moisture Precipitation
58 Dryness
59 Other
6 **Reflection Refraction Diffraction**
7 **Transmission formulas Range**
8 **Wave front angle**
9 **Other transmission fenomena**
116 Directional properties
117 Waves on wires
12 Radio circuits
121 Simple radio circuits
Theory and effects
122 Coupled circuits
123 Damping Decrement
124 Resistance
125 Reactance
2 **Inductance** 3 **Capacity**
126 Harmonics
127 Beats
128 Modulation
2 **Distortion**
129 Other topics
1 **Oscillating circuits**
2 **Rectification**
13 Instruments Apparatus Equipment
131 Generating, sending, transmitting apparatus
See also 621.3841326 Tube generators
1 **Simple oscillators**
2 **Spark gaps**
3 **Arcs Arc converters Arc generators**
4 **High frequency alternators**
5 **High voltage generators**
6 **Transformers**
7 **Automatic transmitters**
8 **Other types of generators and transmitters**
Practis code transmitters, etc
9 **Auxiliary equipment**
91 Frequency changers 92 Protectiv devices

621.384132 Vacuum tubes Electron tubes
- 1 **Construction Evacuation**
- 12 2-electrode tubes
- 123 Regulator "
- 13 3-electrode "
- 14 Vacuum tubes with 4 or more electrodes
- 15 Alternating current tubes
- 17 Impedance
- 18 Electron emission Ionization
- 2 **Apparatus**
  - Use in wire sistems, etc
- 3 Detectors Rectifiers
  - See also 621.3841362 Detectors in general
- 31 Detector action
  - Divided like 621.38413662
- 32 Plate or anode circuit rectification
- 33 Grate or cathode " "
- 4 Amplifiers
  - See also 621.3841363 Amplifiers in general
- 5 Electron tube receiving sets
  - See also 621.3841366 Receiving sets in general
- 6 Electron tube generators
  - See also 621.384131 Generating apparatus in general
- 7 Modulators
- 8 Electron tube radiotelefone sets
- 9 Other electron tube apparatus

133 Parts of circuits Instruments
- 1 **Condensers**
- 2 **Inductors**
- 22 Inductance coils
- 23 Couplers Oscillation transformers
- 3 **Resistors**
- 4 **Meters**
- 41 Wavemeters
- 43 Frequency meters
- 45 Decremeters
- 5 **Modulating devices Modulators**
- 8 **Auxiliary equipment, parts and details**
- 81 Filament and plate current supply
- 82 Filters Filter circuits
- 83 Grounds
- 84 Cathode ray oscillograf
- 85 Switches and switching devices
- 86 Insulating and protectiv devices
- 87 Radio conductors Wiring devices
- 88 Structural details
- 89 Other devices and auxiliary equipment
- 9 **Other instruments**

135 Antennas, aerials and their substitutes
- 1 **General questions**
  - Functions, antenna constants
- 12 Proper frequency
- 13 Capacity
- 14 Inductance Self induction
- 15 Resistance
- 2 **Condenser or ordinary elevated antennas Open antennas**
- 22 With ground
- 23 " counterpoise, without ground
- 24 Inverted L type
- 25 T type
- 26 Umbrella type
- 3 **Ground and underground antennas**

621.3841354
- 5 **Coil, frame or loop antennas Closed or skeleton antennas**
- 52 **Directional antennas**
- 53 Direction finders, for reception
- 54 Directiv antennas, for transmission
- 55 Wave antennas Bevcrage antenna
- 56 Beam sistem antennas
- 6 Adcock antennas
- 7 **Multiple-tuned antennas**
- **Artificial antennas**
  - Use of trees, balloons, kites etc. Improvized antennas
- 8 **Antenna parts and auxiliaries Antenna kits**
- 81 Structural members: masts, towers, poles etc
- 82 Ground connections and auxiliaries: ground screens, etc
- 83 Counterpoises
- 84 Antenna hardware and fittings: brackets, spreders etc
- 85 Antenna conductors, antenna wires
- 86 Insulating devices
- 87 Antenna instruments
- 88 Leads-in, feeders, switches etc
- 89 Protectiv devices
- 9 **Special antennas**
  - For vehicles, ships, submarines, airplanes etc

136 Receiving apparatus and instruments
- 1 **General questions**
- 12 Sensitivity, intensity and clearness of reception
- 13 Perturbations
- 14 Selectivity
- 15 Fidelity
- 16 Output
- 17 Power supply
- 172 Direct current
- 173 Alternating current
- 2 **Detectors and rectifiers**
  - See also 621.3841323 Tube or valv detectors
- 21 General questions: detector action, etc
- 22 Cristal detectors
- 23 Electrolytic detectors
- 25 Nonrectifying "
- 26 Coherers
- 27 Thermal detectors
- 28 Magnetic "
- 3 **Amplifiers**
  - See also 621.3841324 Tube or valv amplifiers
- 4 **Telefone receivers Acoustic receivers**
- 42 Tuned receivers
- 43 Loud speakers Loud speaking apparatus
- 44 Hed sets Hed telefone receivers
- 45 Audibility meters
- 5 **Recording devices Automatic recorders**
- 6 Optic receivers
- 62 **Receiving sets**
- 621 See also 621.3841325 Tube receiving sets
- 2 According to principle or type of circuit
- 622 Regenerativ
- 623 Superregenerativ
- 2 Autodyne
- 3 Heterodyne
- 624 Superheterodyne
- 625 Autoheterodyne **Endodyne**
- 626 Supersonic
- 627 Reflex
- 628 Neutrodyne
- 629 Solodyne
- Oscillating cristal or piezoelectric receivers
- Other

621.38413663 Cristal-valv combinations
64 According to structural arrangements or details
642 Sets for fonograf mounting
643 Combination radiofonograf
644 Knockdown sets
15 Radio communication sistems
151 According to power, frequency or wave
152 Subdued or modulated wave sistems
Free oscillations
1 **Spark sistems**
2 **Radio telefone sistems**
3 **Low frequency modulated sistems**
Tonic train, etc
4 **High frequency modulated sistems**
153 Continuous or sustaind wave sistems
Forced oscillations, continuous-train sistems
1 **High frequency alternator sistems**
2 **Separate frequency-raiser "**
3 **Arc sistems**
4 **Tube or valv sistems**
5 **Timed or periodic spark sistems**
6 **Impulse excitation**
7 **Beat reception**
8 **Use of receiving interrupters and tone wheels**
9 **Other**
154 Interference elimination
1 **Strays Atmosferics Static**
2 **Interference of power circuits**
3 **" " special apparatus and installations**
5 **General methods of elimination**
6 **Devices: static eliminators, static reducers, wave-traps, call selection devices**
7 **Station interference**
8 **Secrecy sistems**
9 **Other**
155 Remote control by wire
156 Linkage Relaying
157 Multiple and directed sistems
1 **Duplex Diplex Multiplex**
2 **Syntonization of communicating stations**
3 **Directiv sistems**
4 **Wired wireless Conducted waves**
158 Recording and relay operating sistems
2 **Relay operating sistems**
4 **High speed sistems**
5 **Automatic printing sistems**
159 Other sistems
2 **Buzzerfone**
3 **Fullerfone**
5 **Tree telegrafy**
6 **Underground communication**
16 Radio stations
161 Equipment Station descriptions
162 According to underlying principle or sistem of working
Divided like 621.38415
163 Commercial stations
164 Broadcasting "
165 Ship "
166 Private "
2 **Amateur "**
167 Experiment "
168 Portable "
169 Other

621.38417 Radio mesurements and standardization
171 General questions
2 **General methods and apparatus**
22 Uses of electron tubes in radio mesurements
25 Shielding and grounding
26 High frequency bridge
27 Use of high frequency oscillograf
28 Use of beat notes
282 Beat indicators
3 **Special methods**
32 Resonance 34 Null
33 Harmonic 35 Substitution
5 Frequency Wave length
172 Capacity
173 Inductance
174 Resistance Decrement Power loss
175 Current
176 Voltage
177 Signal intensity
178 Modulation
179 Properties of materials
Under each of following subdivisions the 01 divisions as given under 620.1 may be uzed as needed
1 **Electric insulating materials**
11 Laminated 12 Molded 13 Binders
2 **Electrolytes**
3 **Magnetic materials**
4 **Conductors**
41 Metals
Copper, tungsten cte
43 Pyroelcetrie
9 Other radio mesurements
18 Radio manufacturing
182 Materials and equipment
Sources etc
2 **Raw materials** 4 **Tools Machines**
183 Factories
Location etc. Divided like 621.71–.79
184 Sales
4 **Advertizing**
19 Applications
191 Travel and navigation
2 **Land travel**
22 Railroads
Communication with trains
23 Automobiles
3 **Water travel Navigation**
Communication with ships
32 Distress signals
33 Direction finding in general
34 Radio beacons
35 Fog signaling
36 Radio compass Radio goniometry
37 Submarine
38 Life saving servis
See also 614.8 Protection of human life
4 **Air travel Aviation**
Communication with aircraft
41 General questions: radiotelefony on aircraft
42 Receiving on aircraft
43 Transmitting from aircraft
44 Receiving from aircraft
45 Transmitting to "

621.384192 Commercial and industrial servises
- 1 **General traffic**
- 11 Codes and cyphers
- 115 Speed of code reception
- 12 Station call letters
- 13 Abbreviations
- 14 Alfabets
  - Morse, continental, international
- 15 Relations with land lines
- 16 " " cables
- 17 Rates
- 2 **Pres servis**
- 6 **Industrial servises**
  - 62–699 divided like 620–699, e.g. 621.384192622 Radio applied to mining. For industries not included in 620–699 uze 621.38419261 divided like main clasification

193 Broadcasting
- 1 **General questions**
  - Standard waves, etc
- 8 **Types of material broadcast**
  - Divided like main clasification

194 Amateur wireless activities

195 War and police servises
- 2 **Military** 3 **Naval** 4 **Police**

196 Distant control by radio

197 Interplanetary communication

198 Radio toys

199 Other applications

2 **Wireless telegrafy**
- 21 General questions
- 25 Sistems
  - Divided like 621.38415
- 3 Instruments
  - Divided like 621.38413
- 4 Applications Adaptations Specific installations
  - Divided like 621.38419

5 **Wireless telefony**
- 51 General questions
- 55 Sistems
  - Divided like 621.38415
- 6 Instruments Apparatus Equipment
  - Divided like 621.38413
- 7 Applications Adaptations Specific installations
  - Divided like 621.38419

621.385 Telefony Systems
- See also 621.3845 Wireless telefony
- 1 **General**
- 2 **Party line**
  - When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails
- 22 Series
- 23 Bridging
- 24 Selectiv
- 3 **Intercommunicating systems**
  - Without central switchboard
- 32 Common return systems; selectiv at each station
- 34 Radial common return systems; selectiv at one station only
- 36 2-wire systems; separate returns
- 4 **Central switchboard systems**
  - Manual; for automatic see 621.3857
- 42 Local battery or magneto systems
- 46 Common battery or central energy systems
- 5 Multiple switchboard systems
- 6 Trunking Transfer systems
- 61 Trunking
- 63 Transfer systems
- 7 **Semiautomatic and automatic systems**
- 72 Semiautomatic
- 75 Automatic
- 76 Strowger system (Automatic Electric Co)
- 3 **Private exchanges**

.386 Telefone instruments
- Terminal; subscriber's instruments
- 2 Transmitters
- 3 Receivers
- 4 Induction coils
- 5 Condensers
- 6 Hook or other switches
- 7 Call receiving apparatus
- 8 Call sending "
- 9 Miscellaneous accessories
- 92 Coin collecting devices
- 94 Protectiv devices
- 96 Current supply (local batteries)

.387 Central switchboards and other station equipment
- 1 **General**
- 2 **Switchboards, manual**
- 22 Local battery or magneto
- 26 Common battery
- 3 Multiple switchboards
- 35 Divided multiple
- 4 Trunks Transfer boards
- 41 Trunks and trunking
- 43 A boards
- 45 B boards
- 47 Multiple plug transfer
- 5 **Switchboard parts and accessories**

621.3876 **Power plant equipment and accessories**
62 Accumulators
63 Charging generators
64 Ringing "
7 **Automatic and semiautomatic switchboards**
Including accessories. Subdivided like 621.3857
8 **Telefone transmission**
For transmission common to other branches of electricity see 621.31, Put here only that peculiar to telefony
81 General questions
82 Long distance
83 Transposition
84 Telefone cable construction
85 Loading
86 Pupin coils
9 **Other central station accessories**
92 Distributing frames and racks; main
93 " " " " intermediate or secondary
94 Protectiv devices
See also 621.3178 and 621.3198
96 Meters and counters
See also 621.3286 Electric light meters

.388 Transmission of images Television
1 **General questions** 5 **Sistems** 6 **Stations**
3 **Apparatus** 52 Wire sistems 9 **Applications**
Divided like 621.38413 53 Wireless sistems

.389 Other electric communication

.39 Other applications of electricity
Subdivided like 600; e.g. electricity applied to mining 621.3922, applied to medicin 621.3915. This place is provided for specialists who prefer to mas all their material under 621.3. Libraries should clas rather by purpose of the application; e.g. books on electric heating wil be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications

.4 **Heat, air and gas engines, etc.**
.41 Hot air engins
.42 Comprest or rarefied air or gas engins
.43 Internal combustion engins
.431 General theory of internal combustion engins
.432 Cycles and sistems of operation
1 4-cycle sistems Otto cycle
2 2-cycle sistems
3 Other and modified sistems
.433 Gas turbins
.434 Internal combustion engins clast by fuels
1 Engins for gaseous fuels
11 Engins for natural gas
12 " " illuminating gas
13 " " blast furnace gas
14 " " producer gas. For gas producers see 665.8
15 Engins for acetylene gas
2 Engins for liquid fuels
21 Engins for gasolene
22 " " kerosene
23 " " other petroleum oils
24 " " alcohol
3 Engins for solid fuels

621.436 Special engins or motors
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alfabeticly by name of machine
.437 Parts and accessories of internal combustion engins
.438 Special applications
3 Selfpropeld machinery
Engins for farm machinery, fire engins, roadrollers, etc. See also special machines
4 Selfpropeld vehicles
Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629.25 Motor vehicle in engineering
5 Motors for small boats
6 " " large vessels
7 Airship motors
See also 629.13435 in Aeronautics
.44 Binary vapor engins
.45 Windmills
.46 Animal motors Tredmills
.47 Solar engins
.49 Power plants and central stations
.5 **Pneumatic machinery Mechanical refrigeration**
.51 Air compressors
.515 Dry air compressors
.517 Wet " "
.52
.53 Comprest air transmission and distribution
.532 Details of transmission Piping, mains, gages, etc. Designs of transmission
.54 Applications for comprest air
For pneumatic hoists, etc. see 621.86
.541 Comprest air motors
.542 Pneumatic tools: drills, hammers, etc.
See also 621.9 Machine tools
.543
.544 Special applications in railway servis
.545 Comprest air locomotivs
.546 Pumping by comprest air
.549 Other applications
Pneumatic cleaning, sandblasts, tubes
.55 Rarefied air and vacuum appliances
Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
.56 Refrigeration
For cold storage see 664.8
.564 Refrigerating fluids
.565 Refrigerating systems and plants
1 Brine system
2 Direct expansion system
.566 Design Calculation of piping, refrigerating surface, etc.

621.57 Refrigerating machines
.572 Ammonia compression machines
.573 Ammonia absorption "
.574 Carbonic acid machines
.575 Air machines, vacuum machines, etc.
.579 Other
.58 Icemaking
.581 Can system
.582 Plate system
.6 Blowing and pumping engins
.61 Piston blowers Blast furnace blowing engins, etc.
.62 Rotary blowers
.63 Centrifugal blowers
Including fans: exhaust and plenum
.64 Power pumps and pumping engins
Regardless of motiv power
.641 General theory Design and construction
.642 Tests of pumps and pumping engins
.65 Direct acting pumps
.652 Piston pumps
.654 Plunger "
.66 Rotary pumps
.67 Centrifugal pumps
.68 Fire engins
.69 Other blowing and pumping devices
Steam jets, ejectors, etc.

621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offises, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also
651 Offis methods and equipment
657 Accounting, costkeeping, estimates
658 Business methods
659.1 Advertizing, etc.
670 Manufacturers: articles, and methods and machines for making them
725.4 Architecture of factories

In 621.7 is considerd the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

.701 Location
With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration
Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considerd solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force, see 651

.705 Mechanics and laborers
.71 Drafting room
.711 General
.712 Arrangement
.713 Equipment
.714 Materials and supplies
.715 Methods and processes
.719 Other
.72 Woodworking shop Pattern shop
May be subdivided like 621.71
.73 Forge shop
May be subdivided like 621.71
.74 Foundry
May be subdivided like 621.71
.75 Machine shop
May be subdivided like 621.71
.76 Blast furnace
May be subdivided like 621.71
.77 Rolling and drawing mills
May be subdivided like 621.71
.78

621.79 Other shops and departments
.792 Boiler and sheet metal shops
Stamping and punching May be subdivided like 621.71
.794 Special process shops
Galvanizing, plating, etc. May be subdivided like 621.71
.795 Finishing shop
Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
.796 Storehouses
2 Materials and supplies
4 Explosivs
6 Products Shipping department
.798 Department turning out main product
Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leav vacant May be subdivided like 621.71
.799 Other minor shops and departments

.8 Principles of mechanism Power transmission Hoisting and conveying machinery
.81 General Principles of mechanism Machine design
.82 Journals, shafting, etc.
.821 Journals
.822 Bearings: ball, roller, etc. Hangers Bearing metals
.823 Shafting
.8235 Flexible shafting
.825 Couplings and clutches Universal joints
Friction clutches
.826 Shaft brakes
.83 Tootht gears and cams
.831 General: theory, forms of teeth, tooth curvs
.832 Efficiency of gears Tests Friction of gears
.833 Design of gears
1 Spur gears
2 Bevel and skew bevel gears
3 Worm and spiral gears
Screws for transmitting motion, endless screws
.834 Construction: gear cutting and casting
.835 Chain gearing
.837 Ratchet gearing: pawls, dogs
.838 Cams
.84 Valv motions and gears Pistons
General, trade catalogs; for special valvs see subject
.846 Valvs and cocks
.85 Machinery and mill gearing
Class here transmission by flexible connections
.852 Belt connection
.853 Hemp rope transmission
.854 Wire rope
.856 Pulleys Sheavs
.858 Friction gearing

621.86 Hoisting and conveying machinery and apparatus
For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery
See also 621.26 Hydraulic machinery; 621.18378 Fuel and ash conveyers
.861
.862 Hoists: blocks and tackle
.863 Mechanical tackle Chain blocks
.864 Winches Capstans Windlasses
.865 Power shovels
.867 Conveyers Telferage
2 Pipes Piping
4 Belt or bucket conveyers
5 Belt: moving sidewalks
6 Bucket: escalators, moving stairs
9 Other conveyers: cash carriers, etc.
.868 Telfers
4 Selfpropelling
.869 Other: jacks, etc.
.87 Cranes and elevators
.871
.872 Derricks
.873 Revolving cranes
621.873-5 may be subdivided like 621.8771-5 by kind of power if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric
.874 Traveling cranes
.875 Locomotiv cranes
.876
.877 Elevators
1 Handpower
2 Belt driven
3 Steam, gasoline
4 Hydraulic
5 Electric
6
7 For special purposes
71 Passenger elevators
72 Freight "
For mines see 622.67-.68
73
74 Dum waiters Book lifts
Lifts for small objects
8 Apparatus
81 Car and guides
82 Power transmitting devices
83 Counterbalancing weights and guides
84 Control devices
85 Safety "
86 Accessories

621.88 Fastenings
.882 Screws and bolts Systems of screw threds
For screws for transmitting motion see 621.8333
.883 Keys and cotters
.884 Rivets Design of riveted joints
.89 Friction Lubrication Lubricants
.9 Machine tools
Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For wood-working tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry, 736 Wood carving
.91 Planing and milling machines
.912 Metal planers, shapers, and slotters
.92 Grinding and filing Abrasivs Crushers
.922 Cylinder and surface grinding machines
Lapping machines
.923 Emery wheels
.924 Filing machines
.93 Cutting and sawing
.931
.932 Metal sawing and cutting machinery
.94 Turning
.941
.942 Metal turning lathes
.943
.944 Pipethreding machines
.945 Boring mills
.95 Perforating machinery
.951
.952 Drilling machinery **Drills**
.953
.954 Reamers
.955 Tapping machines
.96 Punching and shearing machinery
.97 Hammers Riveting tools
.98 Bending, straightening, and shaping
.981
.982 Bending machinery
.983 Straightening machinery
.984 Flanging and die press machinery
.99 Other

622 Mining engineering.

See also 338.2 Mining products; 332.418 Coinage metals
May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 Exploration and Prospecting

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19
.17
.18
.19 Mining Prospectuses. See 552.

.2 Practical Mining.

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.56.

.3 Working of Mines. Exploitation.

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Mining coal and other organic ores
Divided like 553.2, e.g. 622.335 Anthracite coal mining, 622.338 Petroleum extraction
.34 Metal mining
.341 Iron
.342 Gold and silver
1 Gold 2 Silver
.343–.349 divided like 553.43–.49, e.g. 622.343 Copper mining
.35 Working thick deposits Building stones
Divided like 553.5, e.g. 622.352 Granit quarrying. See also 622.22 Quarrying in general
.36 Mining salt and earthy economic minerals
Divided like 553.6, e.g. 622.363 Salt mining
.37 Extracting minerals from mineral waters
Divided like 553.7, e.g. 622.374 Sulfuric
.38 Mining gems and ornamental stones
.39 " other economic minerals

622.4 Ventilation and lighting of mines
- .41 Theory Gases met with, etc.
- .42 Natural ventilation
- .43 Furnaces Steam jets, etc.
- .44 Fans See 621.62
- .45 Airways Stoppings Regulators
- .46 Mesurement of ventilation
- .47 Lighting Safety lamps, etc.

.5 Drainage
- .51 Theory of infiltration of water
- .52 Natural drainage
- .53 Cornish pumps See 621.6
- .54 Steam pumps See 621.64
- .55 Hoisting of water
- .56 Dams and watertight linings See also 622.28, Timbering
- .57 Acid waters

.6 Extraction Hoisting and transportation
- .61 Handling mineral in working place
- .62 Underground roads
- .63 Mine cars Trams, etc.
- .64 Gravity roads and planes
- .65 Tramming and animal haulage See 625.7
- .66 Mechanical haulage
- .67 Hoisting engins Drums Ropes Whims
- .68 Cages Skips Buckets
- .69 Surface transportation
  Including mineral roads, wire ropeways, transhipment, loading and unloading, etc.

.7 Mechanical preparation Ore dressing
- .71 Theory Preliminary operations
- .72 Hand dressing
- .73 Crushing Stamping engin
- .74 Screening
- .75 Jigging Ore concentrators
- .76 Slime treatment
- .77 Magnetic separation
- .78 Coal washing
- .79 Dressing works

.8 Dangers and accidents See also 613.6 Hygiene; 331.82 Laboring classes
- .81 Explosions of firedamp
- .82 Mine fires
- .83 Crushing and fall of ground
- .84 Flooding of mines
- .85 Accidents to miners
- .86 Rescue and relief
- .87
- .88
- .89

623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectils
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent
- .11 Principles of fortification
  - .111 Profiles
  - .112 Plans
  - .113
  - .114 Defilading
  - .115
  - .116 Details: bastions, curtains, glacis, etc.
  - .117 Accessory defenses
    Flanking defenses; outworks, palisades: moats, obstacles, etc.
- .12 Construction of permanent fortifications
  - .122 Earthwork
  - .123 Masonry: concrete
  - .124 Armor
- .13 Systems of forts
  - .131 Central fort
  - .132 Citadel
  - .133 Fortified positions
  - .134 Barrier forts
- .15 Temporary fortifications Field works
- 19 Special forts
  Divided like 930-999; e.g. history of the fortress of Gibraltar 623.19468

2 Siege operations Mines
Class here only engineering operations. For conduct of sieges, see 355.44
- .21 Siege works
  Investment, establishing camps
- .22 Circumvallation and countervallation
- .23 Establishing parallels and advancing batteries
- .24 Zigzags Saps
  Trenching, blindage, gabionades
- .25 Breaching batteries Breaches
  For assaults see 355.44
- .26 Land mines and torpedoes
  See also 623.95 Submarine torpedoes
- .27 Other means of demolition
  Firing and exploding devices

623.3 Defensiv operations
For mancuvers see 355.44
.34 Defense of trenches
.35 " breaches
.36 Countermines .38 Air raid defenses
.4 Firearms, ordnance and projectils Arsenals
Including ammunition in general and fireworks. For manufacture of explosivs see 662. For general history of war customs and wepons, and of ancient engins of war see 399. Class here wepons for gunpowder and similar explosivs
.41 Artillery material
Clast according to use
.412 Field artillery material
413 Mountain " "
414 Landing " "
.415 Siege " "
.416 Fortress " "
Including large guns (fortress, coast and naval) considerd together
.417 Coast artillery material
.418 Naval " "
.42 Guns
.421 Guns according to form and construction
See also 623.5 Gunnery; 623.47 Gunmaking
1 Early forms: bombards, culverins, etc.
For blunderbuses and other early forms of small arms see 623.441
2 Guns proper or long cannon
3 Short cannon or howitzers (shell guns)
4 Mortars
5 Guns made in a single piece
6 Bilt up guns
61 Hoopt guns
62 Jacketed guns
63 Hoopt and jacketed guns
64 Wirewound guns
.422 Guns according to mode of loading and operating
1 Muzzleloading guns
2 Breechloading "
3 Rapidfire guns
4 Machine "
42 Multiple tube guns
Gatling guns, Hotchkiss revolving cannon
43 Single tube guns
5 Automatic and semiautomatic guns
Hotchkiss, Maxim, Colt
.423 Form and interior arrangement of guns
1 General plan
2 Outside form
3 Hooping
4 Jacketing
5 Bore
6 Rifling
7 Chamber

623.424 Breech and firing mechanisms
1 Breech closing apparatus
11 Block
12 Wedge
13 Screw
2 Firing apparatus Vent Vent bushing Firing pin
3 Safety apparatus: gas checks, etc.
.425 Sighting attachments
For detacht apparatus, see 623.462
1 Backsight, sliding notch, eyehole, etc.
2 Sight Foresight
.43 Mounts and carriages
Including their parts and accessories
.431 Field and mountain mounts and carriages
1 Field mounts
2 Mountain mounts
3 Machine gun mounts
4 Caissons and limbers
5 Ammunition chests
6 Battery carriages (i. e. tenders)
.432 Siege mounts and carriages
1 Siege gun mounts
2 Howitzer mounts
3 Mortar mounts
4 Siege carriages (i. e. tenders)
.433 Fortress, coast and naval mounts
For accessories see 623.435
1 Casemate mounts
Pedestal and pivot mounts
2 Barbet mounts
3 Disappearing mounts
4 Turret mounts
.434 Naval mounts
For discussion limited to naval use
.435 Mechanism of mounts
Platforms, circular pintle block and pivots
1 Checks and transoms
2 Chassis and crosshed slides
3 Mechanism for maneuvering and going into battery: wheels, trucks, rollers
4 Sighting apparatus
5 Recoilchecking mechanism Breeching Vent plug
6 Recoil mechanism Brakes
61 Automatic friction recoil checks
62 Screw brakes
63 Hydraulic brakes
64 Pneumatic "
65 Trail spades
7 Reactionary mechanism
Devices for restoring guns to firing position after recoil
71 Spring recuperators
72 Pneumatic recuperators

623.436 Maneuvering appliances
- 1 Levers, handspikes, roller handspikes
- 2 Breeching tackle
- 3 Shot barrows, shell barrows
- 4 Projectil hoists
  - See also 621.86 Hoisting and conveying machinery

.44 Small arms
- Mechanism and military efficiency
- For small arms practis see 355.5
- " manufacture of small arms see 683
- " wepons prior to firearms see 399

.441 Primitiv forms of firearms
- Blunderbus, harquebus, etc.

.442 Rifles, muskets, carbines, musketoons
- Including also bayonet as part of the complete wepon
- 1 Single shot, muzzleloading
- 2 " " breechloading
- 3 Repeating rifles
- 31 With magazine
- 32 " loader
- 4 Automatic guns

.443 Pistols and revolvers
- 1 Single shot pistols
- 3 Automatic pistols
- 4 Revolvers

.444 Side arms Cutting arms
- For halberds, axes, dirks, poniards, and other antiquated forms see 399
- 2 Swords
- 3 Bayonets: saber bayonets, sword bayonets
- 4 Lances

.45 Ammunition and fireworks
- Kinds and relativ efficiency for military purposes. For details of manufacture of powder and explosivs see 662

.451 Artillery projectils
- Including exploder as part of projectil
- 1 Spheric projectils
- 11 Solid shot
- 12 Bombs
- 13 Shells: early shrapnel
- 14 Grenades
- 2 Elongated projectils
- 22 Case shot: canister and grape
- 25 Elongated bullets
- 3 Shells
- 4 Modern shrapnel
- 5 Segment and ring shell
- 6 Incendiary shells
  - For illuminating shells see 623.45446
- 7 Shells with high explosiv Torpedo shells
- 8 Armorpiercing shells and other projectils

623.452 Powders Explosivs
- See also 662.2 Powder manufacture
- 1 Gunpowder
- 2 Other powders
- 9 Other explosivs

.453 Fixt ammunition

.454 Exploding devices and fireworks
- See also 662 Pyrotechnics, explosivs, matches etc.
- 1 Matches and fuzes
- 11 Slow matches and fuzes
- 12 Quick matches and fuzes
- 2 Exploders
- 21 Percussion caps
- 22 Primers
- 23 Projectil fuzes
- 24 " detonators
- 29 Other exploders etc.
- 3 Fireworks, bombs etc.
  - For torpedoes see 623.495
- 31 Incendiary devices
- 32 War rockets
- 33
- 34 Petards
- 35 Camouflets
- 4 Illuminating fireworks
- 41 Links
- 42 Torches
- 43
- 44 Signal rockets
- 45
- 46 Illuminating projectils Star shells

.455 Small arms ammunition
- For powder see 623.452
- 1 Spheric bullets
- 2 Elongated bullets Minie ball
- 3 Cartridges Fixt ammunition
- 32 Jacketed bullets
- 35 Prohibited bullets: dumdum or expanding; explosiv
  - Those prohibited by Hague conference

.46 Artillery accessories

.461 Battery tools

.462 Instruments
- 1 Sighting apparatus: rear sight, quadrants, elevating arcs, range scales
- 5 Range finders

.463 Implements: rammers, swabs, levers

.47 Arsenals
- Subdivide like 621.7

623.48 Preservation and care of munitions
Reception, tests, accidents
.481 Preservation
1 Magazines
2 Guns
3 Carriages
4 Small arms
.482 Reception Tests Buying
1 Inspection
2 Acceptance tests
3 Function of commissions Experimentation
.483 Accidents Explosions; preventiv mesures
1 Accidents to persons
2 " material
21 Accidents to arms
22 " in transit
Damage to boats, cars, etc.
23 Accidents to structures
.5 Gunnery
Theoretic and experimental; efficiency of artillery system as a whole. See also 'Projectils' in Relativ index following Tables
.51 Theory and strength of guns
.52
.53 Interior ballistics
Effects of powders; experiments
.54 Exterior ballistics
.55 Sighting and firing
.551 Field and mountain guns
.552 Siege guns
.553 Fortress, coast and naval guns
.554 Naval target practis
.56 Effect of projectils
.561 On living targets: impact, gases
.562 " inanimate targets
1 Earthworks
2 Masonry Concrete
3 Armor
.57 Reaction of mounts
.571 Rigid rolling mounts
.572 " sliding "
.573 Theory of braking
.574 Mechanically controld recoil
.575 Nonrecoil mounts
.58 Traction of carriages

623.6 Military roads, bridges and bildings
From the special point of view of military servis. For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, see 627 Hydraulic engineering
.61 Military bildings
Duplicating 725.18 for military engineers. Libraries should use 725.18 and leav 623.61–.614 vacant; for construction of fortifications see 623.1
.611
.612 Barracks
.613 Military establishments
Groups of bildings forming a unit; e.g. military schools, army posts
.614 Magazines
.62 Military roads and thorofares
See also 625.7 Construction of roads
.63 Military railways
See also 625 Railway construction
.631
.632 Destruction of tracks
.633
.634
.65 Military bridges
For permanent bridges see 624
.651
.652 Pontoon bridges
.653 Trestle bridges
.654 Other temporary bridges
.66 Bridge material
.7 Military signals Aeronautics, etc.
Special military applications of science
.71 Military topografy
Special processes and instruments. See also 526 Topografy in general
.72 Photografy
Reproductiv processes applied to military art. See also 770 Photografy
.73 Signaling Military telegrafy
.731 Visual signals: heliografs, searchlights, etc.
.732 Military telegrafy
Both wire and wireless. See also 621.382 and 654 Telegrafy
.733 Military telefony
Both wire and wireless. See also 621.385 and 654.6 Telefony
.74 Military aeronautics
For principles see 533.6 Aeronautics: for construction of airships see 629.1
Class here only military utility
.741 Machines lighter than air
.742 Free balloons
.743 Dirigible balloons
.744 Captiv balloons
.745
.746 Machines hevier than air: aeroplanes
.749 Other topics
.75 Military sanitation
Camp sites: soil, water, drainage, etc. For personal hygiene see 613.67
.77 Camouflage engineering

623.8 Naval architecture Boatbilding
Including warship accessories. Class here comprehensiv works on shipbilding. Subdivide with 001–009 and 02–09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies

.81 General Design
Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity, etc.

.82 Types of ships and boats

.821 Primitiv and early forms

2 **Rafts, catamarans, dugouts; galleys**

.822 Modern sailing vessels

5 **Caravels, sailing yachts, etc.**
See also 797.14 Yachting; 623.824 Power yachts

.823 Engin driven vessels
Steam, internal combustion, electric, etc.

2 **Tugs and lighters**

4 **Ferry boats: passenger, freight and train**

.824 Passenger and cargo vessels
River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823

.825 Warships
Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822

.826 Other government vessels
Transports, hospital ships, store and fuel ships (supply. food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.

.828 Other power vessels
Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7

.829 Other boats
Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, lifeboats, surf boats

.83 Appliances peculiar to shipbilding
Model tanks and experiments, including also Froude's tests on full size ships; launching ways and launching; dry or graving docks; moldloft and scriveboard

.84 Hull and its accessories
Structural: watertight compartments; systems of construction (wood, composit, iron and steel), structural details (framing, bulkheds, etc.)
Nonstructural: joinery, nonstructural decks

.85 Hull accessories: masts and spars; rudder and steering gear; drainage, etc.
Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering
Ship fittings: doors, hatches, etc.

.86 Equipment and outfit
Superadded, not bilt in, but necessary for effectiv use of ship
Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys
Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit. See also domestic economy, 645

.87 Propelling machinery
Vibration and balancing. For theory of propulsion see 623.81
See also 621.12 Marine engins; 621.165 Steam turbins; 621.18 Boilers

.9 Armor and armament
Distribution, armoring; proper hight, etc; battery
For manufacture of armor plate see 672 Iron and steel manufactures

.95 Torpedoes Launching tubes and other accessories

624 Bridges and roofs Viaducts
Subdivide if wlsht like 620.1–.9 and 620.0

.1 General

.12 Purpose
Highway, foot bridges, etc. regardless of structural type

.13

.14 Location Approaches

.15 Foundations
General works Foundations of bildings are better clast 721.1

.151 Foundation bed Nature of soil

.152 Excavation, timbering, shoring
624.153–.157 may be subdivided like 721.13–.17

.153 Material for bilding foundations
For material for superstructure see 624.01

.154 Pile foundations: general Material

.155 " " methods of sinking

.156 Platform foundations

.157 Subaqueous foundations
Processes: cofferdam, caisson, freezing

.16 Piers and abutments
Wood, masonry, metal. Subdivided like 620.1

.17 Stresses and strains
General; if limited to a special type, class with that type

.171 General Computation of stresses

.172 Loads
Ded, live or moving loads

.173 Highway

.174 Railway

.175 Wind pressure

.176 Working stresses

.2 Girders and girder bridges
Including floor systems; see .25 below

.21 Girders
Continuous; discontinuous or independent

.22 Solid beams

.222 Wood

.227 Metal

.23 Plate girders Lattis girders

.24 Trestles

.25 Floor systems

.27 Girder bridges

.3 Trusses and trussed bridges
Constructed of systems of braced girders

.31

.32 Simple truss

.33 Continuous truss

.35 Cantilever truss Balance bridge

.4 Tubular bridges Box-girder bridge

624.5 Suspension bridges
- .52 Flexible Rope bridge
- .53 Rigid
- .55 Cables
- .56 Towers or piers
- .57 Anchorage

.6 Archt bridges
- .62 Wood
- .63 Masonry
  Stone, brick, concrete, reinforced concrete
- .67 Metal: iron and steel
- .68 Hinged arch

.7 Compound structures
Structurally compound; e. g. plate girder and suspension, trussed arch

.8 Movable bridges Drawbridges
- .82 Bascule: counterpoise, folding
- .83 Swing: pivot, swivel, turning
- .84 Lifting
  Whole bridge lifted vertically
- .85 Rolling
  Floating; see also 624.87
- .86 Aerial and other traveling bridges
- .87 Pontoon bridges: floating, boat or raft

.9 Roofs
For other relations see Roofs in Relativ index

625 Railroad and road engineering
May be divided by 0 and 00 like 620. For railway operation see 656

.1 Way and works
- .11 Route
  Reconnaissance, preliminary and locating surveys; center line, grades; curvs; switchbacks
- .12 Permanent way Roadbed
  Earthwork: surveys, computation, classification, cuts and fills. Drainage
- .13 Structures: tunnels, culverts, snowsheds
  Class here general works on tunnels; see also mining 622.26
  For bridges and trestles see 624; for transportation bildings see 725.3
- .14 Track: ballast, ties and tieplates, strains
  Including general works covering also rails and their accessories
- .146 Monorail tracks
- .15 Rails and accessories
  Rail braces, rail joints, chairs, track bolts, nut locks, spikes
- .16 Track accessories
  Turnouts, switches, sidings, bumping posts; crossings; signals; turntables; ashpits, track tanks; cattle gards
- .17 Road maintenance and repair Materials
- .18 Road equipment
  Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops etc. considerd as road accessories
  For stations, depots, roundhouses, etc. see 725.3
  For shops see 621.7
- .19 Other topics

625.2 Trains and accessories
Interrelations of road and rolling stock; strain and wear
For car bilding see 699 For time tables, traffic, etc. see 656.
- .21 Running gear
  Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing; axle boxes and gards; lubrication
  Suspension, bearing springs
- .22 Cars See also 699 car bilding
  Transverse section of car and track gage
  Effect of length of car in rounding curvs
- .23 Passenger cars
- .24 Freight and combination cars
- .25 Brakes Buffers and couplings
- .26 Power requirements
  Length and weight of trains. Speed
  See also 621.13 Steam engins; 621.3342 Electric engins; 621.43 Gas engins
- .27
- .28 Monorail rolling stock

.3 Inclined and mountain railways
- .32 Funicular railways
- .33 Rack railways

.4 Elevated and underground roads, subways

.5 Cable roads

.6 Street railways, tramways
See also 621.33 Electric traction; 625.4 Elevated and underground railways; 625.5 Cable roads; 699 Carbilding

.7 Roads, highways, streets
See also local government, 352.7 Streets, highways; for pavements see 625.8
- .71 Road systems
- .711 Rural
- .712 Urban
- .72 Location
  Preliminary and locating surveys Grades Curvs
- .73 Roadbed, foundation
  Earthwork Subsurface drainage
- .74 Dirt roads Crowning Drainage
- .75 Surfacing Oil and other binders
- .76 Maintenance and repair
- .77 Trees Parkings
- .78 Subsurface condits, pipes, etc.
  Sewers; water, steam and gas pipes as affecting roads
- .79 Other topics

625.8 **Pavement**
.81 Flagstone
.82 Stone blocks and brick
Including cobblestone. Requirements of paving stones
For vitrified brick see 625.87
.83 Wood pavements Corduroy, plank, blocks
.84 Concrete pavements
.85 Asfalt "
.86 Stone roads
Macadam, telford and other broken stone processes
.87 Metal, vitrified brick, reinforced blocks
For other brick pavements see 625.82
.88 Sidewalks May be divided like 625.81–.87
.888 Curbs
.89 Other topics
.9 **Ship railways**

626 Canal engineering

.1 **Route**
.2 **Water supply**
.3 **Size and shape**
.4 **Locks**
.5 **Lifts and inclined planes**
.6 **Canal boats: size, shape, etc.** See 623.829 Shipbilding
.7 **Towing; power, etc.**
.8 **Irrigation canals and other irrigation works**
.9 **Ship canals**

627 River, harbor, and general hydraulic engineering See also 624.157 and 721.17 Subaqueous foundations

.1 **Rivers and valleys**
River and valley improvement. Force of water, discharge, bars, etc.
.2 **Harbors Breakwaters**
.3 **Docks Piers Quays Shipping facilities**
.4 **Dikes and levees, embankments**
.5 **Other protection and reclamation of land from tides and waves, drainage** For agricultural drainage see 631.6
.6 **Jetties**
.7 **Dredging Dredging machinery**
.8 **Dams**
.9 **Lighthouses Buoys**

628 Sanitary engineering Waterworks

.01 Theories, utility .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygrafy .09 History and description of sanitation and general sanitary works, divided geograficly like 930–999

.1 **Water supply of towns** For isolated supply see 628.7
.11 Sources of water supply
Lakes, rivers, springs, wells, and pumping
.12 Pumping vs gravitation systems
Pump well, standpipe, high servis, Holley system

628.13 Storage and servis reservoirs
.14 Condits, aqueducts, tunnels See 625
.15 Mains and servis pipes Freezing, iron, led
.16 Impurities and their removal: filter basins, etc.
.17 Public (sprinkling, fire, flushing), manufacturing, and domestic use and waste; meters
.2 **Sewerage works**
.21 Sewerage system
.211 Combined system
.212 Separate system
.213 Liernur system
.214 Shone system
.215 Berlier system
.216 Other systems
.217 Outfall
.218 Depth and alinement
.219 Grade and velocity
.22 Shape and size of sewers
.221 Stormwater flow
.222 Ordinary flow
.223 Circular section
.224 Ordinary eg shape
.225 Other eg shapes
.226 Other forms
.228 Formulas for size
.23 Ventilation of sewers
.231 Openings in streets
.232 Lamp posts
.233 Flues in houses
.234 Pipes on houses
.235 House drains
.236 Chimneys and furnaces
.237 Charcoal and chemicals to deodorize sewer gas
.238 Special mechanism
.239 Special construction
.24 Design and construction of sewers
.25 Sewer appurtenances
.251 Junctions
.252 House connections
.253 Manholes and lampholes
.254 Flushing shafts and fixtures
.255 Catch basins and inlets
.256 Traps and ventilators
.257 Valvs and penstocks
.258 Overflows and regulators
.259 Miscellaneous

628.26 River crossings
.27 Intercepting and outfall sewers
.28 Reservoirs and tank sewers
.29 Pumping stations
.3 Sewage and its disposal
.31 Physical properties of sewage
.32 Deodorization and disinfection of solids and liquids
See also 628.237
.33 Subsidence
.34 Precipitation
.341 Precipitation tanks
.342 Mixing machinery
.343 Filter presses
.344 Precipitation by salts of alumina
.345 By lime
.346 By salts of iron
.347 By other methods
.348 Disposal of sludge
.349 Miscellaneous
.35 Filtration
.36 Irrigation
.361 Broad irrigation
.362 Ridge and furrow irrigation
.363 Flatbed irrigation
.364 Subsurface irrigation
.365 Intermittent downward filtration
.366 Carriers and appurtenances
.367 Drains and drainage of sewage farms
.368 Filtration areas
.369 Miscellaneous
.37 Sewage farming Required modifications of ordinary methods
.38 Sewage manures See also agriculture, 631.8425
.39 Discharge into sea, etc.
.4 Sanitation of towns
.41 Middens and privies
.42 Pail systems
.43 Earth closet systems
.44 Domestic ashes, garbage and refuse
.45 Public urinals and latrines
.46 Street cleaning and sprinkling
.47 Pavements and subways
.48 Trees in streets and squares
.49 Manufacture of fertilizers from town wastes

628.5 Industrial sanitation
.51 Factories and trades
.511 Prevention of dust and fumes
.512 Protection of throat and eyes
.513 Protection against infection
.519 Special trades
2–99 Divided like 620–699
For trades not included in 620–699 uze 628.5191 divided like main clasification
.52 Effiuvium nuisanccs
.521 Situation of works
.522 Use of high chimneys
.523 Condensation in water
.524 Combustion in furnaces
.529 Special trades
2–99 Divided like 620–699
For trades not included in 620–699 uze 628.5291 divided like main clasification
.53 Smoke nuisance
.538 From steam generators
.539 From special industries
2–99 Divided like 620–699
For industries not included in 620–699 uze 628.5391 divided like main clasification
.54 Disposal of solid and liquid wastes
.541 Discharge into natural waters
Into streams, lakes, oceans
.542 Absorbing wells and burial
.543 Clarification by subsidence
.544 Chemical treatment
.545 Filtration
.546 Purification by the soil
.548 Special methods
.549 " trades
2–99 Divided like 620–699
For trades not included in 620–699 uze 628.5491 divided like main clasification
.6 House drainage
.7 Rural water supply: villages and country houses
.8 Ventilation and heating Air conditioning
This hed is chiefly for ventilation. Most matter on heating goes in 697
See also Heating, Ventilation, in Relativ index following Tables
.9 Lighting
For other relations and applications see Lighting in Relativ index

629 Other branches of engineering

.1 Automotiv industries
Air, land, water, treated together; for water craft alone see 623.8

.13 **Aeronautics**
See also 387.7 Commerce, 533.6 Physics, 623.74 Military aeronautics, 656 Transport. For full list of form divisions see Table 2 after Relativ index

.1307 **Study and teaching**
72 Reserch Experimentation
722 Laboratories Experiment stations
723 Wind tunnels Wind channels
724 Basins Water channels
725 Methods
2 **Laboratory methods General experimental methods**
3 **Wind tunnel teknic and manipulation**
78 Apparatus Instruments Equipment
Tools, machinery etc
782 General laboratory apparatus
Accelerometers etc
783 Wind tunnel equipment
9 **History and local treatment**
Including general accounts of voyages and flight records; but accounts of special voyages or records may be clast according to purpose with type of machine used, record made or special application. Divided like 940–999

.131 General questions

.132 Basic considerations
2 Aerostatics
Equilibrium, pressure and properties of stil air
3 Aerodynamics
31 **General principles and theories**
Bird flight, soaring, gliding, vortex theory, theory of similitude, etc
32 **Air flow Slipstream Burbling Turbulence**
33 **Lift Thrust**
34 **Resistance Drag**
Hed resistance, structural or parasite resistance, wing resistance
35 **Pressure**
Pressure distribution
36 **Stability Oscillations Damping**
Lateral, longitudinal, directional, dynamic, inherent stability, etc
37 **Viscosity Skin friction Boundary layer**
4 Meteorologic conditions
Visibility etc. Divided like 551.5

629.1325 Navigation Avigation
Astronomy for air pilots
51 **General questions**
52 **Flying**
Altitude, distance, duration, endurance, speed, blind, night, stunt etc flying
53 **Airways Aerial routes**
Atmosferic roads
54 **Aerial maps Air topografy**
Charts, log books, pilot guides
55 **Accidents Air disasters**
552 To aircraft
553 " persons
554 " cargo
558 Accident prevention
See also 614.86 Protection of travelers
56 **Medical aspects**
562 Physical requirements for flying
563 " examination of pilots
564 Air sickness
See also 612.27511 Physiology

.133 Aircraft
If it is desired to keep all structural and other details of specific types of aircraft with those types 4–8 under each type may be divided like 629.134–.138 below
2 Lighter than air Aerostation
21 **General questions**
22 **Nondirigible**
Balloons, montgolfières, pilot balloons, ballon sonde, kite and captiv balloons
24 **Dirigible Airships**
25 Rigid Zeppelins
Structure airships
26 Semirigid
27 Nonrigid Blimps
Pressure airships
3 Hevier than air Aviation
31 **General questions**
32 **Kites**
33 **Gliders**
34 **Airplanes**
341 General questions
342 According to weight
343 " " number of planes
1 Monoplanes
2 Biplanes
3 Triplanes
4 Multiplanes: more than planes
344 Open or closed
345 Tandem or following planes
346 Hovering machines
347 Hydroairplanes Hydroplanes
Seaplanes, flying boats
348 Amphibians
349 Other planes
35 **Helicopters Autogiros**
36 **Ornithopters Orthopters**
37 **Aviets**
38 **Rocket propeld aircraft**
39 **Other hevier than air aircraft**

629.134 Construction
- 1 Principles of construction Design
  - Strains and stresses, size, volume, area, linear dimensions, shape, weight, displacement etc
- 2 Materials
  - Divided like 620.1
- 3 Parts and details
  - **31 Frame Envelop Body**
  - **32 Supporting surfaces and elements**
    - 322 Gas cels Ballonets
      - 2 Inflation materials
        - Hydrogen, helium, hot air, etc
    - 323 Planes Wings Airfoils
    - 328 Accessory elements
      - Trusses, struts, ribs, spars, webs, netting, wires, covering etc
  - **33 Control and steering surfaces and elements**
    - Fins, ailerons, elevators, rudders etc
  - **34 Carrying compartments**
    - Basket, car, cabin, fuselage, cockpit, seats; control compartments, instrument board; passenger, freight and baggage, engin etc compartments; methods of attachment, etc
  - **35 Motors**
    - For types of motors and motor fuels see 621.4
  - **36 Propellers Air screws**
  - **37 Rigging, bracing, longerons etc**
  - **38 Starting and landing apparatus**
    - 382 Inflation and deflation apparatus
      - Rip panels, etc
    - 384 Floats Pontoons Chassis Undercarriage Wheels
      - 1 General questions
        - Design, method of attachment, etc
      - 2 Floats Pontoons
      - 3 Chassis Undercarriage
      - 4 Wheels
      - 5 Skids
      - 6 Shock absorbers
      - 7 Skis Landing gear for use on snow
    - 385 Anchors
    - 386 Parachutes
  - **39 Other**
- 4 Protectiv and safety devices
  - Waterproofing, fireprevention, safety glas, etc
- 5 Performance and performance calculations Inspection
  - Speed, climb etc. Mekanic testing, sand-load testing, dynamic or flight testing

629.135 Equipment and fittings
- For military aviation equipment see 623.74
- 1 Navigation equipment
  - See also 621.3841914 Radio equipment
  - **12 Automatic pilot Gyropilot**
  - **13 Direction finders**
  - **14 Hight indicators**
  - **15 Distance and speed indicators**
  - **16 Balancing and stabilizing equipment**
  - **18 Landing and navigation lights**
    - Landing flares
- 2 Performance equipment
- 3 Engin equipment
- 4 Electric equipment
- 5 Communication equipment
  - For radio equipment see 621.3841914; see also 629.1366 Airports
- 6 Photografic equipment
  - See also 778 Photografy
- 7 Personal equipment
  - Clothing, goggles, safety belts, oxygen apparatus, etc
- 8 Accessory equipment
  - Chronometers, temperature indicators, ballast, instrument mountings, supports, shock absorbing devices, etc
- 9 Other

.136 Airports Airdromes Seadromes
- Landing fields, flying parks, etc
- 2 Selection Location Design
- 3 Construction
  - Drainage, roads, runways
- 4 Structures
  - Hangars, sheds, offises, waiting rooms, repair shops, mooring masts, etc
- 5 Lighting equipment
  - Serchlights, flares, aerial lighthouses, etc
- 6 Communication and signaling equipment
  - See also 621.3841914 Radio
- 8 Fire protection

629.138 Applications
In general practis applications ar preferably clast with their subject, e.g. 387.7 Air transport. For military aeronautics see 623.74

1 General questions
Use of aircraft vs other means of transport

2 Transport servis
Clas here general engineering discussions of commercial aeronautics
22 **Passenger** 23 **Mail post** Parcel 25 **Freight Express**
See also 383 Postal servis

3 Political Diplomatic
Goodwil flights, etc

4 Patrol and gard duty
42 **Police** 44 **Protection of property** Fire protection, forest patrol, etc
43 **Coast and boundary patrol** Prevention of smuggling, etc

5 Exploration Survey
55 **Scientific**
552 Geodetic Topografic
553 Physical
For study of principles of physics
555 Geologic
1 Physiografic 3 Economic To determin geologic resources
15 **Meteorologic**
557 Biologic
558 Botanic
559 Zoologic
57 **Photografic**
See also 778 Photografy
59 **Geografic**

6 Industrial
61 **Medical and sanitary servis Life saving**
612 Disease prevention and cure
Destruction of flies, mosquitoes etc. Servis in epidemics
613 Ambulance servis
Rescue of injured, drowning etc; rescue from fires, cold, storms etc
617 Transport of ded
62 **Prospecting Mining**
63 **Agricultural**
Crop dusting, etc
639 Fisheries Whaling
Bombing, scouting etc
69 **Advertizing**
Sky writing, etc. See also 659.138 Advertizing

7 Sport
Sight seeing, racing etc. See also 797.5 Acrostation

8 Interplanetary, interstellar flight
Astronautics

9 Other applications
Divided like main clasification

629.2 **Motor vehicles Automobils Mekanicly propeld highway vehicles**
For highway vehicles for separate tractors (animal or mekanic) see 684

.21 General questions

.213 Social and commercial aspects
3 **Economics**
4 **Laws Legal aspects**
42 Registration Titles Taxation Licenses
43 Traffic regulations
See also 388 Traffic laws and regulation
6 **Accidents and accident prevention**
See also 614.862 Protection of travelers
62 Fire prevention
See also 614.84 Fires
63 Insurance
See also 368 Insurance
7 **Accounting**
8 **Sales Prices**
801–88 may be divided like 658.801–.88, including Advertizing on 629.213821
89 Prices

.22 Types

.222 Passenger
2 **Private**
Vehicles for private use or ownership
3 **Public**
Buses, jitneys, taxicabs, sightseeing cars, etc

.223 Delivery
For light loads or local use

.224 Trucks
2 **Freight trucks**
For hevy hauling, moving vans, etc
3 **Dump trucks**
32 Side dump 34 Chain hoist
33 End " 35 Hydraulic

.225 Tractors
See also 621.14 Traction engins, 631.372 Farm tractors
2 **Wheel type** 3 **Caterpillar type**

.226 Trailers Sidecars
2 **Trailers**
22 2 wheel 26 Intersupporting with auxiliary wheels
24 4 wheel 27 Permanently attacht
3 **Sidecars**

.227 Bicycles, motorcycles etc
Velocipedes
1 **Unicycles Monocycles**
2 **Bicycles**
3 **Tricycles**
4 **Multicycles: quadricycles etc**
5 **Motorcycles**
6 **With 2 or more seats**
Tandems etc

.228 Special purpose vehicles
Divided like main clasification

.229 Other types of mekanicly or motor propeld vehicles

629.23 Construction

.232 Materials

Works limited to material uzed only for some special part ar best clast under number for that part

2 **Metallic materials**

22 Ferrous

23 Iron and iron alloys

24 Steel and steel "

25 Nonferrous

26 Aluminum and light alloys

27 Copper and copper "

Bras, bronz etc

28 Babbit and other bearing metals

29 Other metallic materials

May be divided like 553.4

3 **Nonmetallic materials**

31 Wood

32 Rubber

33 Glas

34 Upholstery

345 Lether

347 Textil materials

May be divided like 677

35 Paper

36 Celluloid

37 Paints, varnishes and other finishing materials

38 Friction materials

39 Other nonmetallic materials

.233 Testing and inspecting raw materials

For final inspection of finisht parts sec 629.2347

2 **Instruments and equipment for testing**

3 **Methods of testing**

.234 Production Manufacture

See also 621.7 Mils and factories

1 **Methods and equipment for manufacture and assembly**

19 Machine tools

May be divided like 621.9

2 **Factory bildings and layout**

May bc divided likc 658.2

3 **Factory personnel**

May be divided likc 658.3

4 **Pattern making Molding Foundry**

May be divided like 621.71. See also 621.72 Pattern shop, 621.74 Foundry

5 **Forging**

Hand and drop forge. May be divided like 621.71. See also 621.73 Forge shop

6 **Finishing**

Trimming, upholstering, painting, plating. May be divided like 621.71. See also 621.795 Finishing shop

7 **Inspection of parts, accessories and assemblies**

8 **Crating Storage Shipping**

9 **Other**

629.24 Chassis

Chassis includes motor, supporting frame, change speed mekanism, running gear and steering gear, but does not include body or accessories. For motor see 629.25

.242 **Frames**

2 Side and cros members

3 Subframcs

4 Rivets

5 Gussets

6 Engin mountings

7 Fans and aprons

.243 **Springs**

2 Types

22 Elliptic

23 Cantilever

24 Coil

25 Platform

3 Methods of spring attachment

32 Hangers

33 Seats

34 Shackles

4 Spring action modifiers

42 Snubbers

43 Shock absorbers

.244 **Clutches Change speed mekanism and controls**

Transmission

2 Clutehes

22 Friction clutch

23 Magnetic clutch

3 Clutch brakes

4 Transmission Gear shift

Change speed mekanism and controls

41 Planetary

42 Sliding gear

43 Mountings

44 Control springs

45 Pedals

46 Levers

47 Shift mekanism

48 Interlocks

49 Other

.245 **Rear axles and final drives**

Including mekanism transmitting power from change speed mekanism to road wheels

1 Chain drive

2 Jack shaft type

3 Propeller shaft

4 4-wheel drive

5 Driving axles Variable speed axles

Housing, hubs, shafts

6 Universal joint

7 Torque element

8 Differentials

9 Other

.246 **Brakes**

2 Rear wheel brakes

3 Front " "

4 " "

5 Transmission "

6 Brake control

62 Mekanic

63 Electric

64 Hydraulic

7 Brake mekanism

72 Levers

73 Cams and connecting links

8 Friction surfaces

For friction materials see 629.23238

.247 **Front axles and steering**

2 Rear wheel steering

3 Front " "

4 4 " "

5 Axles

6 Knuckles

7 Arms

8 Steering gear

Includes mekanisms from steering wheel to arms on knuckles

82 Steering wheel

83 Radius rod

84 Spindles

629.248 **Road wheels**
- 2 Compression wheels
  - 22 Wood
  - 23 Disk
  - 24 Stampt
  - 25 Spoke
  - 26 Cast
- 3 Tension wheels
  - In which load is supported in tension, e.g. wire wheels
- 4 Hubs and bearings
- 5 Rims
- 6 Tires
  - 62 Solid
  - 63 Pneumatic
    - Balloon tires, etc
  - 64 Fabric
  - 65 Cord
  - 66 Tubes
  - 67 Fild
  - 68 Spring and other special types
  - 69 Special treds

.25 **Motor Engin**
See also 621.4384 Motors for self-propeld vehicles

.251 Types
If it is desired that all material on a special type be kept together each type may be subdivided like .252–.259 below
- 2 Steam
  - 22 **Steam engins**
  - 23 **" turbins**
- 3 Turbin
  - Other than steam, including general discussions of turbin propeld motor vehicles
- 4 Internal combustion
  - 42 **Gasolin**
  - 43 **Alcohol**
  - 44 **Gas**
  - 45 **Oil**
    - Diesels etc
- 5 Electric
- 6 Comprest air
- 8 Rocket propulsion

.252 Motor parts
- 1 Cilinders and cilinder heds
- 2 Crank cases and bases
- 3 Pistons Rings Pins
- 4 Connecting ring bearings
- 5 Crank shaft and bearings
- 6 Fly wheels
- 7 Valvs Valv mekanisms
- 8 Manifolds Mufflers
  - 82 **Manifolds**
  - 83 **Mufflers**
- 9 Other

.253 Fuel sistem
- 2 Vaporizer
- 3 Carbureter
- 4 Fuel controls
- 5 " supply
  - Gravity, pressure, vacuum, pipes, superchargers
- 6 Heaters
- 7 Air cleaners
- 8 Fuels
  - See also 629.251 Motor types, 665 Oils and gases

.254 Ignition sistem
- 1 Hot bulb
- 2 Make and break
- 3 Jump spark
- 4 Electric energy
  - Batteries, magnetos, generators. See also 621.313 Dynamo-electric machinery, 621.35 Voltaic cels and generators
- 5 Coils
- 6 Spark plugs
- 7 Timers Distributors
- 8 Ignition controls
- 9 Other

629.255 Lubricating sistem
For lubrication see 629.2874
- 2 Gravity feed
- 3 Splash
- 4 Force
  - 42 **Full**
  - 43 **Partial**
- 5 Lubricant supply
  - 52 **Tanks**
  - 53 **Pipes**
- 6 Purifiers
- 7 Lubricants
  - See also 665 Oils

.256 Cooling sistem
- 2 Air radiation
  - 22 **Direct**
  - 23 **Forced**
  - 24 **Induced**
- 3 Water
  - 32 **Thermosiphons**
  - 33 **Forced circulation**
- 4 Steam and other types
- 5 Radiators
- 6 Fans and fan drives
- 7 Pumps
- 8 Cooling sistem controls

.257 Starting sistem
- 2 Hand
- 3 Compression
- 4 Comprest air or gas
- 5 Spring
- 6 Electric

.258 Governors
- 2 Valv control
- 3 Throttle control
- 4 Spark control

.259 Other

.26 Body
See also 629.22 Types of vehicles; for body accessories see 629.278

.261 **Types**
- 2 Open
- 3 Closed
- 4 Enclosures

.262 **Frame**
- 2 Sils
- 3 Pillars
- 4 Braces

.263 **Paneling Seats**
- 2 Shrouds
- 3 Doors
- 4 Instrument
- 5 Hoods
- 8 Seats

.264 **Windshields Windows**
- 2 Glas
- 3 Celluloid

.265 **Trim**
For hardware see 629.275
- 2 Seat and back springs
- 3 Upholstery
  - See also 629.23234 Upholstery materials
- 4 Floor covering
- 5 Arm rests

.266 **Tops Side curtains**
- 2 Frames
- 3 Coverings

.267 **Fenders Splash gards Aprons Running boards**
- 2 Fenders
- 3 Splash gards Aprons
- 4 Running boards

.268 **Finish**
Paints, varnishes, enamels, lacquers etc. See also 629.23237 Finishing materials

.269 **Other**

629.27 Details Accessories Parts of general manufacturing

.271 **Lighting**
See also 629.254 Ignition sistem
2 Lights
22 Hedlights
23 Auxiliary lights
24 Tail lights
25 Dome "
26 Curtesy lights
3 Beam modifiers
32 Dimmers
33 Masks
4 Reflectors
5 Focus adjusters

.272 **Tools Jacks Pumps Skid chains**
2 Tools 3 Jacks 4 Pumps 5 Skid chains

.273 **Gages Indicators Signals**
2 Gages
Oil and gasolin gages, etc
3 Indicators
Ammeters, speedometers etc
4 Signals
Horns, bels etc

.274 **Carriers**
2 Tire racks 3 Baggage carriers 4 Tool chests

.275 **Hardware**
Door locks, handles, hinges, ash trays, etc

.276 **Bumpers**

.277 **Heaters**

.278 **Body accessories**
2 Windshield cleaners
3 Speaking tubes
4 Visors
5 Ventilators

.279 **Other details and accessories**

.28 Operation Repair

.281 Touring

.282 Racing Hil climbing
2 Racing 3 Hil climbing 4 Road tests Endurance tests

.283 Passenger transportation
2 Private vehicles 3 Public vehicles

.284 Delivering Trucking Pulling

.285 Housing Garages
2 Private 3 Public

.286 Servis stations

.287 General care Large scale care
2 Washing 4 Greasing Lubrication
3 Polishing 5 Minor adjustments

.288 Individual care
May be divided like 629.287

.289 Other

.29 Other topics

630 Agriculture Agronomy

SUMMARY

631 Farmsted
632 Hindrances Protection
633 Field crops
634 Fruits
634.9 Forestry
635 Garden crops
635.9 Floriculture
636 Domestic animals
637 Dairy and dairy products
638 Useful invertebrates raised or exploited
639 Hunting, trapping, fish culture

.1 **Rural life**
Rural exodus. Improvement of country life conditions. See also 323.354

.2 **Compends**

Divided like 500; e. g. 630.23 Agricultural physics, 630.28995 Agricultural bacteriology

Only for general treatises. Those relating to a special subject ar clast with the subject: e. g. chemistry of milk 637.127

.3 **Dictionaries, cyclopedias**

.4 **Essays**

.5 **Periodicals**

.58 Yearbooks Directories

.59 Kalendars Almanacs

.6 **Societies, clubs, conferences**
Farm bureaus

.61 Official institutions; government departments

.62 Voluntary associations
Not under government control Cooperativ agriculture

.621 International (International institute of agriculture)

.624–9 Associations divided by country
Subdivided like 940–999: e. g. 630.6244 French agricultural societies; 630.6273 Patrons of Husbandry, including state and local granges; Farmers alliance, etc.
Societies of limited scope ar clast with their subjects; e. g horse breeders associations 636.106

.63 Congresses, conferences, temporary organizations

.7 **Study and teaching**
For agriculture as a school subject see 375.63; for school gardens see 372.36

.71 Instruction, schools

.711 Colleges Alfabetic; but may be subdivided like 940–999 if preferd

.712 Schools Arranged like .711 colleges

[.713 Short courses·
2 Summer
5 Winter

.714 Correspondence courses

.715 Institutes Farmers institutes

.716 Courses in nonagricultural institutions

.717 Extension work
County agent, boys and girls clubs

.719 Other instruction

.72 Research work Experiment stations

.74 Museums, exhibits

.77 Special pedagogic methods

.775 Normal training classes

.79 Competitions, prizes, etc.

.9 **History and general local treatment**
Divided like 930–999

631 The farm, farmsted

SUMMARY

631.1 Farm economics
.2 " bildings
.3 " machinery and tools
.4 Land, soil, soil chemistry
.5 Farm operations
.6 Drainage and reclamation
.7 Irrigation and conservation of moisture
.8 Fertilizers
.9 Climate, roads, etc.

.09 **Geografic distribution of cultivation**
.091 Zones and physical regions
1 Arctic regions
2 Temperate zone
3 Tropics
4 Mountains

631.1 Farm economics

Farm and estate management

.11 Selecting and acquiring a farm
Land settlement guides
Location: nearness to market; means of communication, by water, by land (railways, highways), climate and rainfall

.112 Purchase
Cost, valuation, taxes

.113 Rent

.114 **Share systems (Métayage)**
See also 631.1153

.115 Systems of working a farm
1 **Owner his own farmer**
2 **By a manager**
3 **Share system**
From owner's point of view
See also 631.114 from worker's point of view
4 **Renting**
From owner's point of view
See also 631.113 from renter's point of view

.116 Scale of farm
1 **Large farm**
2
3 **Small farm (One-man farm)**

.12 Laying out farm
Locating bildings, fields, farmsteds, roads and lanes

.13

.14 Types of farms

.141 Crop farm
See 633 Field crops, 634 Fruits, 635 Garden crops

.142 Vegetable farm
See 635 Garden crops

.143 Fruit farm
See 634 Fruits

.144 Woodlands
See 634.9 Forestry

.145 Stock farm
See 636 Domestic animals; 637.113 Dairy farms

.146 Fish culture in ponds
See 639 Hunting, trapping, fishing

631.16 Finances and accounts Bookkeeping records

.17 Expenses

.171 **Buying supplies Purchases**

.173 **Wages**

.175 **Insurance: bildings, stock, crop**
See also Insurance business 368.

.177 **Packing, shipment**
For methods see 631.564

.18 Returns Selling products
Marketing

.2 **Farm bildings**
For architecture, see 728.67 Farm houses; 728.9 Outbildings

.21 Houses Dwellings

.22 Barns Poultry houses Stables

.23 Granaries Silos

.24 Carriage houses

.25 Machine sheds

.26 Other bildings

.27 Fences, walls, hedges

.28 Roads, bridges, etc.

.3 **Farm machinery Tools, appliances, etc.**
Care and repair of farm machinery. Catalogs of machinery, etc

.31 Clearing and soil working: general tools

.311 Digging tools, machines, etc.
1 **Spade: turf, ditching, post, polisht-drain, longhandled garden spades**
Shovel: prongd shovel For steam shovel see 621.865
Spud
2 **Small tools**
Trowel, for mason's trowel see 693. Dibble, dibber or dibbler. See also 631.3311 Seeders
3 **Posthole digger**
Posthole auger or borer. Spudding bit
4 **Forks; for digging, etc. Dung-fork**
For hay forks, pitchforks, see 631.3535
5 **Digging machines**
Spaders, rotary spaders, horse shovel, road scraper
6 **Crow or crowbar**
Pick. See also mining picks 622.21
Pickax, mattock, grubbing hoe, grubbing ax
7 **Stump extractor or puller Stone gatherer Bush syths**

.312 Plows
1 **Common plow; walking plow; hand plow**
2 **Riding plow; sulky plow**
Double plow, double-furrow plow, 2-furrow plow
Balanst plow Gang plow, multiple-furrow plow
3 **Power plow**
Steam plow, traction engin, stationary engin; oil or gas engin; electric

631.3124 **Reversible plow, turning moldboard plow**
Sidehil or hilside plow, turn-wrest plow, one-way plow, dril plow, also sometimes called double plow and swing plow

5 **Breaking plow**
Paring plow, sod plow, prairie plow, skim plow

6 **Pulverizing plow, stubble plow, digging plow**
Subsoil plow, mole plow

Double moldboard plow, doublebrested plow
Middle "buster" or burster, middle breaker

7 **Other special plows**
Vinyard plow — Stump jumper, or stumpjump plow
Seeding plow — Skim colter plow
Scooter — Bul-tung and calf-tung plow

8 **Disk plow**

.313 Harrows

1 **Smoothing harrows**
Bush harrows; plank-scraper; fixt and adjustable tooth, frame harrow

2 **Chain harrow**

3 **Spring-tooth harrow**

4 **Curvd knife-tooth harrow, pulverizer**

5 **Revolving harrow**

6 **Disk harrow: ful disk, cutaway**

7 **Spading harrow, scuffle harrow**

8 **Special uses**
Orchard disk harrow

.314 Rollers, etc.

1 **Rollers**
Wood, stone, metal. Hand, horse, riding, power

2 **Disk rollers**

3 **Clod crushers, clod breaker**

4 **Subsurface packer**

6 **Planker, plank drag**

.315 Hand gardening tools

1 **Hoe**
Draw, field, bayonet, garden

2 **Thrust, Dutch, push, scuffle, D hoe**

3 **Scarifier or scraper**

4 **Weeder**
Hand weeder, finger weeder, weed-hoe, weeding forceps, weeding fork, weeding iron, weeding pincers, weeding tongs

5 **Weed cutters**
Weed hook, weeding chisel, weeding shears

6 **Garden rakes: wood, iron**

.316 Cultivators

1 **Wheel hoe, hand cultivator**

2 **Horse cultivators**
Walking cultivators, horse hoe, shovel plow
Scarifier, scooter, scuffler, hasp, sweep, grubber

3 Riding or sulky cultivators
Balance frame

4 Surface or gofer cultivator
Heel scrape, scrape

5 Disk cultivator

6 Stalk cutter

631.33 Seeding and sowing machinery

.331 Seed sowers, seeding machines

1 **Broadcast sowers, seeders**
Hand machines

2 Walking

3 Riding

4 **Land and row markers**

5 **Furrow sowers** — **Drils**

6 Walking

7 Riding

8 **Special sowers**

.332 Planters

1 **Hand, foot**

2 **Walking**

3 **Riding**

4 **Check rowers**

8 **Special planters**

.333 Fertilizer distributers

1 **Hand machines**

2 **Walking**

3 **Riding**

4 Liquid fertilizer

5 Pulverized "

6 Farmyard manure, manure spreders

.334 Mixt spreders
Both fertilizer and seed

.335 Propagation apparatus
Cutting benches, layering pots, etc.

.336 Transplanters

1 **Ballers**

6 **Tree conveyers**

.34 Equipment for care of plants, trees, etc.

.341 Grafting, etc. implements and material
Budding knife, grafting knife, grafting wax

.342 Pruning

1 **Shears or pruner** — **Hedge trimmer**

2 **Knife or hook**

3 **Chisel**

4 **Bil hook**

5 **Ax or hatchet**

6 **Saw**

7 **Scraper**

.344 Protection and shelter
See also 632.1 and 632.9

1 **Bel glasses**

2 **Cold frames**

3 **Hot beds**

4 **Greenhouses**

5 **Forcing houses**

631.345 Supports
- 1 **Vertical cords and wires**
- 2 **Poles, stakes, stays, props**
- 3 **Trellises, espaliers**
  - Horizontal wires or cords
- 4 **Fruit walls**

.346 Receptacles: pots, boxes, etc.

.35 Harvesting

.351 Hand tools, primitiv tools
- 1 **Sickle, reaping hook, gras knife, gras hook**
- 2 **Syth**
- 3 **Cradle, cradle syth**

.352 Mowers
- 7 **Lawn mowers**

.353 Other haying implements
- 1 **Hay spreders, tedders**
- 2 **Hay rakes, gatherers, binders, windrowers**
- 3 **Hay loaders**
- 4 **Hay stackers**
- 5 **Hay forks and carriers**

.354 Reapers
- 1 **Self binders**
- 2 **Harvester Combined harvester and thresher**
- 3 **Heders Clover heders**

.355 Corn harvesters
- 1 **Corn shockers**
- 2 **Stubble cutters**
- 3 **Corn pickers**
- 4 **Strippers**
- 5 **Toppers**

.358 Harvesting tools for special crops
- 1 **Fruits, nuts**
- 3 **Legumes, peas, beans, etc.**
- 4 **Root crops, etc.**
- 5 **Fiber crops: cotton, flax, hemp**
- 6 **Sugar cane**
- 7 **Other crops**
- 8 **Tree products**
  - Maple (sap), pine (turpentine), gums, resins, gutta percha, etc.

631.36 Machinery, tools, etc. used in preparing for storage or transport

.361 Threshers, etc.
- 1 **Primitiv tools**
  - Flails, drags, wain
- 2 **Mechanical threshers**
- 3 **Huskers**
- 4 **Shellers**

.362 Cleaning
- 1 **Primitiv tools**
  - Shovel, siv, fan
- 2 **Winnowers, fanning machines**
- 3 **Sorters, sifters**
- 6 **Washers for roots and tubers**

.363 Silo machinery
  - Ensilage cutters

.364 Packing for transportation or storage
- 1 **Bundlers**
- 2 **Balers Baling presses**
- 3 **Bunchers**
- 4 **Packers: baskets, boxes**
  - See 631.3731

.37 Power, power transmission appliances Transport

.371 Motiv power
- 1 **Human power**
- 2 **Animal power**
- 3 **Water power**
- 4 **Windmils**
- 5 **Steam engins**
- 6 **Gas engins, oil and alcohol**
- 7 **Electricity**

.372 Tractors
- 1 **Steam**
- 2 **Gas, oil, alcohol**
- 3 **Electric**

.373 Transport appliances
- 1 **By carrying**
  - Baskets, boxes, bags, etc. handbarrows
- 2 **On animals backs: packs, saddlebags, etc.**
- 3 **Drags Sleds Stoneboats**
- 4 **Hand-carts, wheelbarrows**
- 5 **Wagons Chute wagons Drays**
  - Dumping wagons, hayracks, lumber wagons, trucks
- 6 Motor trucks
- 9 Other vehicles

.374 Harness Saddles

.38 Implements for care of farm animals

631.4 Land, soil
.41 Soil chemistry
Chemic properties and constitution of soil
.411 Composition according to geologic origin
.416 Inorganic chemistry
.417 Organic chemistry
.42 Analysis and experiments
Methods of investigation: chemic, mechanical
.43 Soil physics
.431 Specific weight (gravity) of soil
.432 Humidity
Water Ground water
Soil moisture: hygroscopic, capillary
Permeability Absorption
Deserts
.433 Atmosfere: air, gases
.436 Temperature
Warmth of soils
.44 Soil classification Adaptability
Alkali lands; soils for special crops, tobacco, etc.
.45 Soil fertility: maintenance, exhaustion
Reclamation Erosion
See also 631.8 Fertilizers
.46 Soil biology: fungi, microbes, ferments, sterilization
For soil inoculation see 631.8472
.47 Soil surveys
.49 History Divided like 930–999
.5 Farm operations
.51 Soil preparation and working
.511 Spading, digging, forking
.512 Plowing, subsoiling
.513 Blasting, use of explosivs
.514 Harrowing
.515 Rolling, planking
.516 Hoeing, raking, weeding
.517 Cultivating
.52 Selection, breeding, etc.
.521 Selection
1 **Seed selection**
2 **" catalogs**
3 **Plant selection**
4 **Nursery catalogs**
.522 Plant breeding
Fertilization; sterility
.523 **Hybrids Crossing Creation of new varieties**
Sexual, asexual; binary, ternary, quaternary
Laws of hybridation; influence of female, of male
Abnormalities
.524 **Introduction of new kinds**
.525 **Acclimatization**

631.53 Methods of plant multiplication
.531 Seeds Seedage
1 **Sowing broadcast**
2 **Drilling, in rows**
3 **Planting in hils or separate seeds**
7 **Spores**
.532 Separation of growing plant
1 **Young bulbs, offsets**
Bulbils, bulbules or bulblet; separation of small from parent
2 **Tubers**
Cutting into "sets" each with an eye
3 **Division or partition of tufted growing plants**
.533 Detaching of separate plants
1 **Suckers, root suckers, stem suckers**
2 **Runners, stolons**
3 **Proliferous buds**
.534 Layering
1 **Ordinary; each shoot makes one new plant**
2 **Multiple, serpentine, or trench**
3 **Mound or stool layering**
See also 631.5323
4 **Circumposition, potted, aerial, air or Chinese layering**
6 **Layering trees and shrubs**
7 **" vines**
.535 Cuttings
1 **Choice of cutting**
2 **Preparation for planting**
3 **Planting**
4 **Branch or stem cuttings**
5 **Short cuttings: cuttings of single eye or bud**
6 **Root cuttings**
7 **Leaf and bulb scale cuttings**
.536 Transplanting
For grafting and budding see 631.54
.537 Nurseries
For nursery catalogs see 631.5214
.538 Renewal of orchards, vinyards etc.
Renovating, reinvigorating
.54 Caring for plants
For protection against injuries, see 632
.541 Grafting
General teknic. Effect on fertility; on fruit. Overgrafting
For bridge grafting, sometimes called bark grafting, with reference to repairing injuries, see 632.8
1 **Selection of stock and scion, affinity**
2 **Age and season**
3 **Methods of grafting Scion grafting**
31 Cleft grafting
32 Splice " Whip grafting Tung grafting
33 Slip " Wire "
34 Saddle "
35 Veneer "
36 Bark "
In England and France called crown grafting, see 631.54142: and sometimes used to mean bridge grafting, see note under 631.541
37 Herbaceous grafting Green grafting

631.5414 **Grafting according to position of scion**
41 Root grafting
42 Crown "
See also 631.54136, note
43 Stem grafting (on main stem or trunk)
44 Top " (in top or branches)
5 **Bud grafting** **Budding**
Formerly called inoculation Flute grafting
6 **Grafting by approach, inarching**
7 **Binding and protecting grafts**
8 **Indoor grafting**

.542 Pruning
1 **Winter pruning**
11 Theories of pruning
12 Methods of pruning
13 Heading in
14 Thinning of branches
15 Scraping
17 Time to prune
2 **Summer pruning** **Work on green wood**
21 Pinching in
22 Nipping off buds
23 Clipping
24 Ringing, girdling
27 Thinning fruit
3 **Trimming (to secure definit shape)**

.543
.544 Protection and shelter
1 **Bel glasses**
2 **Cold frames**
3 **Hotbeds**
4 **Greenhouses**
5 **Forcing houses**
6 **Unheated houses**

.545 Retardation
.546 Training
1 **Vertical, poles, stakes, cords**
3 **Espalier or trellis training**
4 **Wall training**
5 **Arbor training**
6 **Cordon training**

.547 Stages of plant growth
1 **Seedling**
2 **Increase, growth**
3 **Maturity**
4 **Flowering**
Pollination; fertilization; pollen setting
5 **Fruitage**
6 **Ripening**

631.55 Harvesting
These numbers treat of the material operations of harvesting. Class anything about a definit crop under its special number; e. g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market, 636.085 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day, see the various divisions of commerce, technology and manufactures

.552 Mowing
.553 Hay making, stacking, etc.
.554 Reaping
.555 Corn harvesting
.556 Harvesting other special crops
For cutting and felling trees see 634.9 Forestry
1 **Fruits, nuts, etc.**
3 **Legumes: peas, beans, etc.**
4 **Root crops and tubers**
5 **Fiber crops: flax, hemp, cotton picking**
6 **Sugar cane, etc.**
7
8 **Saps, gums, resins, etc.**
9 **Other crops**

.56 Operations subsequent to harvesting
See note under 631.55

.561 Preparing grains
2 **Threshing, etc.**
3 **Husking corn, etc.**
4 **Shelling corn**

.562 Cleaning, etc.
2 **Winnowing**
3 **Sorting, sifting**
6 **Washing (roots, tubers, etc.)**

.563 Storing
Cutting green fodder and filling silos

.564 Packing
2 **Baling**
4 **Packing in baskets, boxes and barrels**

.565 Transport
In general libraries preferably clast under 380 or 656

.57
.58 Special methods
.581 Fallowing
.582 Crop rotation
.583 Intensiv farming
.584 Catch crop culture
.585
.586 Dry farming Deep soil culture
.587 Irrigation farming
.588 Application of special forces
1 **Electro culture**
2 **Radio "**

631.6 Reclamation Drainage
Agricultural engineering
.61 Initial operations
.611 Prairies
.612 Waste lands: rocks and bushes
.613 Hilsides: terracing
.614 Forests
.615 Marshes Swamps
.616 Lands under water Polders
.617 Deserts
See 631.7 Irrigation
.62 Drainage methods
Ditches Drains (open, coverd, tile)
.63 Drainage systems
Plans, layouts
.64 Dikes and embankments
.65 Water removal by machinery
Pumps, windmils, etc.
.7 Irrigation, water supply
Conservation of moisture. Rainfall, streams
.71 Source of water: wels, reservoirs
.72 Irrigating canals
.73 Systems of irrigation
Plans, etc.
.74 Mesure and distribution of water
.75 Cost of water
.76
.77
.78 Machinery
.79 Methods of conserving moisture
Mulching
See also 631.586 Dry farming; 631.8 Fertilizers, amendment of soils
.8 Fertilizers
.81 History, nature, uses
.811 Nutrition of plants; necessary principles
.812 Production, preparation, collection, conservation
.813 Composition
.814 Loss of fertilizing principles
.815 Economic value
.816 Use Methods of application and distribution
.817 Purchase Transport Cost
.818 Frauds Adulterations Control; legislation, inspection, analysis
.819 History Divided like 930–999

Any special fertilizer may be subdivided like 631.81: e. g.
631.8525 Economic value of bone as a fertilizer
631.8733 Composition of seaweed

631.82 Mineral amendments
.821 Lime, gypsum, plaster
.822 Marl
.825 Sulfate of iron
.83 Potash fertilizers
.831 Wood ashes, vegetable ashes, burning turf
.832 Chlorids
.833 Sulfates
.84 Nitrogen fertilizers
.841 Ammonium salts
.842 Nitrates
1 Calcium cyanamid
5 Sewage
.843 Animal industry residues: skin, etc.
Slaughter house refuse. See also 631.852 Bone
.844 Fish
.845 Blood
.846 Tankage
.847 Vegetable nitrogen fertilizers
Cotton seed meal, castor beans, pomace
1 **Nitrifying crops**
2 **Soil inoculation Bacteria Nitrification**
For soil conditions see 631.46. Here clas introduction of bacteria to improve the soil Difference is same as between 631.45 Soil fertility and 631.8 Fertilizers
.848 Azotin, ammonite, etc.
.85 Fosforic acid
.851 Natural rock
.852 Bone
.853 Slags
.854 Guano
.855 Superfosfates
.86 Farmyard and stable manures, etc.
Subdivided like 636; e. g. 631.862 Cow manure
.87 Vegetable manures
.871 Muck
.872 Leavs
.873 Seaweed
.874 Green manures
.875 Vegetable compost
.876 Residue from vegetable industries
.88 Fertilizer experiments
.9 Climate, roads. etc.

632 Hindrances Protection

Including blights, pests and insects injurious to either plants or animals, but material relating to diseases of animals is better clast in 619 or 636.089 and *may* attract all matter specially relating to animals

.1 Elemental destruction Protection

.11 Low temperature, frost, freezing

.111 Methods of protection

.112 Warnings: wether bureau, thermometers

.113 Covering

.114 Artificial clouds

.115 Fires

.116

.117

.118 Repairing damages

.12 Excessiv heat and drout

.13

.14 Hail

.15 Lightning

.16 Wind and rain

.17 Floods, inundations

.18 Fires: forest and prairie

.19 Other destructiv agents

Earthquakes, fumes, gas, etc.

.2 Galls Cecidiology

No subdivision at present

.3 Bacteria and bacterial diseases

No subdivision at present

.4 Fungi

Divided like 589.2. See also 632.9

.5 Parasitic and injurious plants

.58 Weeds

.59 Plants injurious to animals

632.6 **Injurious animals**

Divided like 590, but clas injurious insects in 632.7 insted of 632.657

.7 Injurious insects

Divided like 595.7. See also 632.9

.71 Thysanura, etc.

Bristle tails or silver fish, spring tails

.72 Orthoptera

Grasshoppers, locusts, roaches, earwigs, leaf insects. See also 632.73; for leaf hoppers

.73 Pseudoneuroptera

Dragon flies, thrips

.74 Neuroptera

Lacewing flies, caddis flies

.75 Rhynchota, hemiptera

Afids (plant lice), biting lice, cicada, scale insects, chinch bug, squash bug, mealy bug, leaf hoppers. See also 632.72 for other leaf insects

.76 Coleoptera

Beetles, flat-hed and round-hed borers, weevils, wire worms

.77 Diptera

Flies, mosquitos, gnats, midges, fleas, root maggots, Hessian fly

.78 Lepidoptera

Butterflies, moths, caterpillars, army worm

.79 Hymenoptera

Ants, bees, wasps; saw, gall, and ichneumon flies

.8 **Diseases and injuries**

Other than coverd by 632.2–.7

.9 **Means of protection**

Other than coverd by 632.1; e. g. netting and covers, screens, gards, scarecrows

.93 Plant quarantine

.94 Methods and apparatus

Spraying, dusting, fumigating

.95 Preparations and materials

.951 Insecticides

Works on insecticides for protection against special insects or insect groups may be clast in subdivisions of 632.7

.952 Fungicides

Works on fungicides for protection against special fungi or fungi groups may be clast in subdivisions of 632.4

.953 Antiseptics

.96 Natural enemies of pests

.962–9 may be subdivided like 592–9. For natural enemies not included in 592–9 uze 632.961 divided like main clasification

633 Field crops: grains, grasses, fibers, etc.

SUMMARY

.1 Cereals, grains
.2 Grasses
.3 Legumes
.4 Root crops
.5 Fiber crops
.6 Sugar plants and starch
.7 Alkaloidal plants
.8 Perfumes, spices, condiments, etc.
.9 Other plants

.1 Cereals Grains

.11 Wheat
.12 Buckwheat
.13 Oats
.14 Rye
.15 Corn, maize
.16 Barley
.17 Millet, sorghum, etc.
.171 Millet
.172 Panic gras
.173 Prosos
.174 Sorghum
For sweet sorghum see 633.62
.175 Broom corn
.176 Shallu
.177 Kafir, milo maize
White kafir, blackhul kafir, red kafir
.178 Durra, Jerusalem corn
Yellow milo, brown durra, white durra, rice corn, white Egyptian corn, Egyptian corn
.18 Rice
.19 Other

.2 Forage crops: grasses

Clas here general treatises on forage crops. Divided according to Hackel

.21 Blue gras *Poa*
.22 Orchard gras *Dactylis*
.23 Red top, bent gras *Agrostis*
.24 Timothy *Phleum*
.25 Cereal grasses Divided like 633.1 Cereals
.26 Other cultivated grasses
.261 Bermuda gras *Cynodon*
.262 *Bromus*
.263 Rye gras *Lolium*
.264 Fescues *Festuca*
.265 Oat gras *Arrhenatherum*
.266 *Paspalum*
.267 *Phalaris*

633.28 Other grasses
Clas here only such grasses as hav no specific number
Divided like Hackel in 633.21–.267
.281 *Maydeae*
Zoysieae
Tristegineae
.282 *Andropogoneae*
.283 *Paniceae*
.284 *Oryzeae*
Phalarideae
.285 *Agrostideae*
.286 *Aveneae*
.287 *Chlorideae*
.288 *Festuceae*
.289 *Hordeae*
Bambuseae

.3 Forage crops: legumes, etc.

.31 Alfalfa *Medicago*
Black medic, bur clover
.32 Clovers, berseem *Trifolium*
.33 Cowpeas *Vigna*
.34 Soybean *Glycine*
.35 Vetches *Vicia*
.36 Peanut *Arachis hypogaea*
See also edible seeds 635.659
.361 Sainfoin *Onobrychis*
.362 Kidney vetch *Anthyllis*
.363 Velvet bean *Mucuna*
.364 Japan clover *Lespedeza*
.365 Beggar weed *Meibomia* *Desmodium*
.366 Sweet clover *Melilotus*
.367 Lupin *Lupinus*
.37 Other legumes
.371 *Sophoreae*
.372 *Podalyrieae*
Genisteae
.373 *Trifolieae*
.374 *Loteae*
.375 *Psoraleae*
Galegeae
.376 *Hedysareae*
.377 *Dalbergieae*
.378 *Vicieae*
.379 *Phaseoleae*
.38
.39 Other forage crops
Cactus, sunflower

633.4 Root crops

These ar practically all also clast as vegetables in 635.1 and .2 and for convenience of correspondence the same arrangement is followd here: 633 4 divided like 635.1 and 633.49 divided like 635.2

.41 Beet *Beta vulgaris*

See also 633.63 Sugar beet

.416 Half sugar mangel

.417 Mangel and mangel wurzel

.42 Turnip *Brassica rapa*

.425 Hybrid turnip

.426 Rutabaga *Brassica campestris*

.43 Carrot *Daucus carota*

.44 Parsnip *Pastinaca sativa*

.49 Tubers and bulbs

.491 Potato *Solanum tuberosum*

.492 Sweet potato *Ipomaea batatas*

.494 Jerusalem artichoke *Helianthus tuberosis*

.5 Textil fibers, cordage, plaiting, basket, etc.

.51 Cotton *Gossypium*

.52 Flax *Linum*

.53 Hemp *Cannabis*

For other fibers known as hemp, see 633.56–.57. Brown and Indian hemp ar indefinit. For 'true Indian hemp' see 633.567

.54 Jute *Corchorus*

.55 Ramie, China gras *Boehmeria*

.56 Other soft fibers

.561 China jute *Abutilon*

.562 Sunn hemp *Crotalaria*

Bengal, Bombay, Conkanee, false, Konkan, Madras or Salsette hemp or Travancore flax; also incorrectly Dekkan or Ambari hemp. Jubbulpore or Jabbalpur hemp

.563 Ambari or Dekkan hemp *Hibiscus*

Kanoff and Gambo hemp. Dekkan hemp also known in market as Binlipatam jute

.564 Majagua Paritium *Hibiscus tiliaceus*

.565 Olona *Touchardia*

.566 Colorado river hemp *Sesbania*

.567 Canada (or Indian) hemp *Apocynum*

True Indian hemp; also called black Indian hemp

.57 Hard fibers

.571 Manila hemp, Abaca *Musa*

.572 New Zealand hemp *Phormium*

.573 Mauritius hemp *Furcraea*

.574 Bowstring hemp *Sansevieria*

.575 Bromelia fibers

.576 Pineapple fiber *Ananas*

633.577 Agave fibers

1 **Sisal, henequen** *Agave rigida*

2 **Ixtle, istle, tampico** *Agave heteracantha*

Jaumave istle *Agave lophantha*

Tula istle *Agave Lecheguilla;* also *A. univittata, A. caerulescens, A. Kerchoevii*

Palm istle *Palma samandoca, Samuela carnerosana, Palma pita, Yucca treuleana*

3 **Manila maguey** *Agave Cantula*

4 **Aloe fiber**

5 **Maguey fiber** *Agave atrovirens, A. collina, A. Potosina, A. Tequilana, A. vivipara*

6 **Zapupe** "zapupe verde", "zapupe azul"

.58 Fibers for plaiting, basket and wicker work; ruf weaving

.581 Coir, coconut fiber *Cocos*

.582 Raffia *Raphia*

.583 Esparto, sparto gras, alfa, halfa *Stipa*

.584 Hat fibers

Jipijapa plant *Carludovica* Panama hat fibers

Yaraw or hat palm Inodes

Straw, wheat, rye, barley, rice; in agricultural aspect better clast in 633.1

.585 Rushes and sedges *Juncus* *Cyperaceae*

.586 Reeds *Arundo*

.587 Bamboo

.588 Osier, willow *Salix*

Other woods, splints, rattan

.59 Fibers for other industrial uses

Filling or stuffing fibers, calking natural fibers: Cuba bast, etc. brush fibers, broom root, paper materials, usually better clast from agricultural standpoint with other uses of the material

.6 Sugar plants and starch

.61 Cane *Saccharum*

.62 Sorghum *Andropogon sorghum Brot. S. vulgare Linn.*

.63 Sugar beets *Beta*

.64 Maple *Acer saccharum Marsh* *Acer saccharinum Wangenh*

.65 Palm

.66 Other sugar plants

.68 Starch

Single plants usually better clast from agricultural standpoint with other uses of these plants; e. g. wheat, corn, rice, potatoes, etc.

.7 Alkaloidal plants

For those chiefly medicinal see 633.88

.71 Tobacco *Nicotiana*

.72 Tea *Camellia thea Link* *Thea Linn.*

.73 Coffee *Coffea*

.74 Cacao, coco, chocolate *Theobroma*

.75 Poppy (opium) *Papaver*

.76 Kola or cola

.77 Maté *Ilex*

Brazil or Paraguay tea, Jesuits tea, yerba

.78 Chicory, succory *Cichorium*

633.8 Perfumes, seasonings, etc.

.81 Perfumery
See also 668.5

.811 Floral: rose, jasmin, violet
.812 Herbal: lavender, rosemary, geranium, patchouli
.813 Citrin: bergamot
.814 Woods: sandalwood, cedar
.815 Roots: orris, vetiver
.816 Balms and gums: myrrh, benzoin

.82 Flavoring
See also 635.7 Condimental and sweet herbs

.821 Vanilla
.822 Mints *Mentha*
.823 Wintergreen *Gaultheria*
.824 Sassafras
.825 Ginger *Zingiber*

.83 Spices
See also 664.5

.831 Allspice
.832 Cloves
.833 Cinnamon
.834 Nutmeg Mace

.84 Condiments
See also 635.7 Condimental and sweet herbs

.841 Pepper *Piper*
.842 Red pepper, paprika *Capsicum*
.843 Chili *Capsicum*, specially *c. fastigatum*
.844 Mustard
.845 Capers
.846 Horseradish

.85 Oil producing plants
Usually better clast from agricultural standpoint with the purpose for which the oil or plant is used

.86 Vegetable dyes, dye plants
.861 Yellow
.862 Blue
.863 Red
.864 Green

.87 Tanning material
Usually better clast from agricultural standpoint with the tree or plant from which the material is derived

.871 Sumac Canaigre

.88 Medicinal plants

.89 Other

.9 Other field plants

634 Fruits, orchards, vinyards, forestry

SUMMARY

.1 Pomaceous fruits
.2 Drupaceous "
.3 Citrous "
.4 Minor fruits
.5 Nut "
.6 Palmaceous fruits
.7 Small fruits
.8 Grapes
.9 Forestry

.1 Pomaceous or pome fruits

.11 Apple *Pyrus malus*
.12 Crab apple
.13 Pear *Pyrus*
.14 Quince *Cydonia*
.15 Medlar *Mespilus*
.16 Loquat, Japan plum *Eriobotrya Japonica*

.2 Drupaceous or stone fruits *Prunus*

.21 Apricot *Prunophora*
.22 Plum *Prunophora*
.23 Cherry *Cerasus*
.24 Racemose cherries: wild cherry, choke cherry, padins, sand cherry
.25 Peach *Amygdalus* or *Prunus Persica*
.26 Nectarin (variety)

.3 Citrous fruits: orange family, etc.

.31 Orange *Citrus aurantium*
.32 Varieties
.321 **Trifoliate** *C. trifoliata*
.322 **Mandarin, tangerine, kid glove orange** *C. nobilis*
.323 **Grape fruit, pomelo, shaddock** *C. decumana*
.324 **Kumquat** *C. Japonica*
.33 Citron group *C. medica*
.331 Citron var. *genuina*
.334 Lemon " *limon*
.337 Lime " *acida* or *limetta*
.34 Other
.341 Glycosmis *G. aurantiaca*
.342 Lime berry, bergamot lime *Triphasia trifoliata* or *aurantiola*
.343 White sapota, cochil sapota *Casimiroa edulis*
.36 Moraceous fruits Mulberry family
.37 Fig *Ficus Carica*
.38 Mulberry *Morus*
.39 Bred fruit *Artocarpus incisa*

634.4 Minor fruits

.41 Anonaceous fruits, custard apple family
.411 Sour-sop *Anona muricata* or *Asiatica*
.412 Sweet-sop, sugar apple *A. squamosa*
.413 Cherimoya; Jamaica apple *A. cherimolia*
.414 Pond apple; mamon *A. glabra* or *laurifolia*
.415 Custard apple; bullock's hart *A. reticulata*
.418 Northern papaw *Asimina triloba*
.42 Myrtaceous fruits, myrtle family
.421 Guava *Psidium*
.422 Rose apple; jamrosade *Eugenia jambos*
.423 Surinam cherry: Cayenne cherry; pitanga *Eugenia uniflora* or *Michelii*
.425 Passifloraceous fruits, passion flower family
.43 Sapotaceous fruits, star apple or sapodilla family
.431 Sapodilla, naseberry *Achras sapota*
.432 Marmalade tree or plum *Mammae sapota, Lucuma mammosa*
.433 Star apple *Chrysophyllum Cainito*
.44 Anacardiaceous fruits, cashew family
.441 Mango *Mangifera Indica*
.442 Jew plum, Pomme Cythere, sweet Otaheite apple *Spondias dulcis*
.443 Spanish plum *Spondias purpurea*
.45 Ebenaceous fruits; ebony family
.451 Kaki; Japan persimmon *Diospyros Kaki*
.452 Persimmon *D. Virginiana*
.46 Leguminous fruits; bean family
.461 Tamarind *Tamarindus Indica*
.462 St Johns bred; carob; karoub; algaroba *Ceratonia siliqua*

.5 Nut fruits Nuciculture

For wild nut trees see 634.9

.51 Walnut *Juglans*
.511 Persian or English walnut *J. regia*
.512 Black walnut *J. nigra*
.513 Japan walnut *J. Sieboldiara*
.518 Butternut, white walnut *J. cinerea*
.52 Hickory nut *Hicoria*
.521 Pecan *H. pecan*
.522 Shagbark or little shelbark hickory *H. ovata*
.523 Big or bottom shelbark hickory *H. laciriosa*
.524 Pignut *H. glabra*

634.53 Chestnut *Castanea*
.531 European chestnut *C. sativa* or *vesca*
.532 American chestnut *C. Americana*
.533 Japan chestnut *C. crenata* or *Japonica*
.537 Chinkapin *C. pumila*
.54 Filbert, hazelnut, cobnut *Corylus*
.55 Almond *Prunus*
.551 Almond *P. amygdalus*
.552 Russian almond *P. nana*
.555 Tropical almond *Terminalia Catappa*
.57 Miscellaneous nuts
.571 Litchi, Leechee *Nephelium Litchi*
.572 Ginkgo *G. biloba*
.573 Cashew *Anacardium occidentale*
.574 Pistachio *Pistacia vera*
.575 Brazil *Bertholletia excelsa*
.58 Peanuts *Arachis hypogaea*
Better clast 635.659

.6 Palmaceous fruits

Palm family and miscellaneous tree fruits

.61 Coconut, coco palm *Cocos nucifera*
.62 Date palm *Phoenix dactylifera*
.63 Oliv *Olea Europea*
.64 Pomegranate *Punica granatum*
.651 Papaw; melon papaw, melon zapote *Carica*
.652 Spanish lime Genip *Melicocca bijuga*
.653 Alligator or Avocado pear *Persea gratissima*
Aguacata, midshipman's butter
.654 Mammee apple, S. Domingo apricot *Mammea Americana*
.661 Hovenia
.662 Jujube *Zizyphus*
.663 Myrica
.664 Seagrape; shore grape *Coccoloba uvifera*
.665 Pigeon plum *Coccoloba floridana*
.666 Otaheite gooseberry *Phyllanthus distichus*
.667 Strawberry tree *Arbutus unedo*

.7 Small fruits, bush fruits and herblike fruits

Table berries

.71 Rubaceous, cane or bramble fruits *Rubus*
.711 Raspberries
1 European 2 Black cap 3 Red
.712 Oriental raspberries, wineberry, Japanese wineberry
.713 Blackberry
.714 Loganberry
.717 Dewberry
1 Northern 2 Southern 3 Pacific

634.72 Ribaceous fruits Groselles *Ribes*
.721 Currants
.722 **Garden or common currant** *R. rubrum*
.723 **Black currant**
1 European *R. nigrum*
2 American *R. Americanum*
3 California *R. bracteosum*
.724 **Buffalo, Missouri, flowering or golden currant** *R. aureum*
.725 Gooseberry
.726 **European** *R. grossularia*
.727 **American** *R. oxycanthoides*
.73 Huckleberry, blueberry, etc.
.731 Blue tangleberry or dangleberry *Gaylussacia frondosa*
.732 Black huckleberry *G. resinosa*
.734 Low or dwarf blueberry *Vaccinium Pennsylvanicum*
.735 Canadian blueberry *V. Canadense*
.736 Low or pale blueberry *V. vacillans*
.737 Swamp blueberry, high huckleberry *V. corymbosum*
.74 Miscellaneous bush fruits
.741 Juneberry *Amelanchier*
.742 Buffalo berry *Lepargyraea argentea* *Shepherdia argentea*
.743 Goumi *Elaeagnus longipes* or *multiflora*
.744 Caraunda Christ's thorn *Carissa Carandas*
.745 Cranberry bush, high or tree cranberry *Viburnum opulus*
.746 Barberry *Berberis*
.747 Elderberry
.75 Strawberry *Fragaria*
.751 Garden strawberry, pine strawberry *F. chiloensis*
.752 Hautbois strawberry *F. moschata*
.753 Alpin and perpetual strawberry *F. vesca*
.754 Scarlet or Virginia strawberry *F. Virginiana*
.76 Cranberry *Vaccinium macrocarpum*, etc.
.77 Nonwoody or herblike fruits
.771 Musaceous fruits *Musa*
.772 **Banana** *Musa sapientum*
.773 **Plantain banana, cooking banana, Adam's fig** var. *paradisiaca*
.774 Pineapple *Ananas sativus*
.775 Cactaceous fruits
1 **Prickly pear, tuna** *Opuntia tuna*
4 **Indian fig** *Opuntia ficus Indica*
7 **Barbados gooseberry, lemon vine, blad apple** *Pereskia aculeata*
.776 Miscellaneous herblike fruits
1 **Cyphomandra; tree tomato** *Cyphomandra betacea*
2 **Ceriman** *Monstera deliciosa*

634.8 Grapes Vinyards Viticulture
Form divisions 01–09 may be used as under 634.9 Forestry
.81 General questions
Divided like 631
.82 Hindrances Blights Pests
Divided like 632
.83 Ampelografy: grape botany Varieties
.831 Botany
Divided like 581
.835 Inheritance; degeneracy etc.
Domestication of the grape
09 **Hybrids**
092 Natural or accidental
093 Artificial
094 Direct bearers or producers
Culture without grafting and spraying
.836 Varieties
2 **By time or season**
Precocious, early, late
3 **By climate or latitude**
Northern, olive belt, orange belt, tropical
4 **By soil**
Clay, limestone
5 **By form of fruit**
Round, oblong, irregular
6 **By color of fruit**
2 White 4 Red 6 Black or blue
7 **Resistant varieties**
72 Phylloxera resistant
73 Mildew resistant
76 Varieties resisting the elements
2 Frost 4 Sun
.84 American species and stocks: nativ
.841 General questions
09 **Hybrids originating or developt in America**
For general works only. Clas a special hybrid with the wilder of its parent stocks
091 Americo-American hybrids
094–099 Vinifera-American hybrids
Divided by the number for the country, like 940–999, e.g. British-American hybrids 634.8410942
.842 Euvites
.843 Ripariae Rupestreae
1 **Ripariae**
2 Vitis riparia or Vitis vulpina
River, riverbank, riverside, sweetscented, or winter grape
209 Hybrids
Bacchus, Berckmans, Canada, Clevener, Clinton, Elvira, Empire State, Etta, Faith, Grein golden, Marion, Montefiore, Noah, Oporto, Peabody, Taylor or Bullitt
3 Vitis rubra
Red or cat grape

634.8435 Rupestreae
- 6 Vitis rupestris
  - Beach, bush, mountain, rock, sand or sugar grape
- 7 Vitis monticola
  - Sweet mountain grape
- 8 Vitis Arizonica
  - Canyon grape

.844 Cinerascentae
- 1 Vitis berlandieri
  - Fall, little mountain, mountain, Spanish or winter grape
- 3 Vitis cinerea
  - Ashy, downy or sweet winter grape
- 5 Vitis cordifolia or hart-leavd vitis
  - Chicken, fox, frost, possum, raccoon, true forest or winter grape

.845 Aestivaliae
- 1 Vitis aestivalis
  - Blue, bunch, chicken, duck-shot, little, pigeon, summer or swamp grape
- 109 Hybrids
  - Cynthiana, gold-coin, Norton, Norton's Virginia, Onderdonk or Ozark
- 2 Vitis aestivalis bourquiniana
  - Southern aestivalis
  - Bertrand, Croton, Cunningham, Devereaux, Herbemont, Louisiana, Poughkeepsie
  - Lenoir: Black Spanish, Burgundy, Warren
- 3 Vitis bicolor
  - Blue leaf, northern or northern summer grape
- 5 Vitis lincecumii
  - Pinewood, post-oak, turkey grape
- 509 Hybrids
  - America, Beacon, Carman, Fern munson, Husmann, Jaeger

.846 Labruscoideae
- 1 Vitis Californica
  - California grape
- 3 Vitis Caribaea de Candolle
- 5 Vitis Coriacea
  - Callosa or lether-leaf grape
- 7 Vitis Candicans
  - Mustang grape
- 709 Hybrids
  - Belton, Gwyn, Sanford

.847 Labruscae: Vitis labrusca
- Fox, northern fox, northern muscadine, skunk grape
- Champion, Chautauqua, Colerain, Concord, Dracut amber, Early daisy, Early Ohio, Eaton, Eclipse, Eldorado, Hartford, Hicks, Hosford, King, Lucile, Lutie, McPike, Moore early, Pocklington, Vergennes, Worden, Wyoming, Wilmington red
- 09 Hybrids
  - Agawam, Aminia, Barry, Black eagle, Brighton, Brilliant, Campbell early, Canandaigua, Catawba, Delaware, Diamond, Diana, Downing, Dutchess, Eumelan, Green early, Hayes, Herbert, Hercules, Ideal, Iona, Isabella, Israella, Ives, Janesville, Jefferson, Jessica, Jewel, Lady, Lady Washington, Lindley, Martha, Massasoit, Maxatawney, Merrimac, Mills, Moyer, Niagara, Perfection, Perkins, Prentiss, Rebecca, Regal, Requa, Rochester, Rommel, Salem, Senasqua, Triumph, Ulster, Wilder, Winchell, Woodruff

634.848 Muscadiniae
- 1 Vitis rotundifolia
  - Bull, bullace, bullet, bushy, muscadine or southern fox grape
- 109 Hybrids
  - Eden, Flowers, Hopkins, James, Memory, Mish
- 6 Vitis Munsoniana
  - Bird, everbearing or Florida grape. Florida mustang grape

.849 Vitis vinifera in America
- Actoni, Almeria, Bakator, Black Hamburg, Black Malvoise, Black Morocco, Chasselas golden, Chasselas rose, Emperor, Feher Szagos, Flame Tokay, Fontainbleu, Gros Colman, Lignan blanc, Malaga, Mission, Moscatello or black muscat, Muscat Hamburg, Muscatel or white Frontignan, Palomino, Purple Cornichon, Rosaki, Rose of Peru, Sultana, Sultanina, Verdal or Aspiran blanc
- 09 Hybrids
  - Gaertner, Geneva, Goethe, Hidalgo, Highland, Hybrid franc, Kensington, Othello, Secretary, Walter

.85 Other species and stocks
- Vitis vinifera is the only Old world species

.853–.859 Stocks by locality — Divided like 930–999

.854 European
- 2 British
- 209 Hybrids
- 1 Americo-British hybrids
- 3 German
  - Affenthaler, Burgunder, Cabernet, Elbling, Heunisch, Malvasia, Muskateller, Orleans, Ortlieber, Riesling, Ruländer, St Laurent or Sundgauer, Sauvignon, Semillon, Sylvaner, Traminer, Velthner
- 309 Hybrids
- 1 Americo-German hybrids
- 36 Austrian
  - Blatterl, Blaufränkisch, Blue Portuguese, Gutedel, Lagrein, Laska, Nosiola, Nossara, Peverella, Red sylvaner, Traminer or Fränkischer, Vernatsch, Wildbacher, Zierfahndler
- 39 Hungarian
  - Augster, Baccador, Balint or Kleinweiss, Honigler, Kadarka, Lämmerschwanz, Slankamenka, Yellow Mosler or Furmint
- 4 French
  - Ambonnay, Argenteuil, Cabernet, Carquebas, Chablis, Chambertin, Chasselas, Colombard, Folle blanche, Gamay, Gamay hatif, Guercy, Jacquez, Loubal, Malbec, Marsanne, Melon, Meslier, Mondeuse, Moussy, Muscadet, Picpoul, Pinot, Pinot noir, Pouilly, Red traminer, Riesling, Roussonne, St Thiery, Sauvignon, Semillon, Sylvaner, Tressalier, Valdignier
- 5 Italian
  - Agostenga, Alcatico, Barbera, Cannajola, Cataratto, Dolcedo, Grignolino, Malvoisie, Marzemino, Nebbiolo, Negrara, Nocera, Schiavone, Teroldigo, Trebbiano
- 6 Spanish
  - Alicante or Grenache, Ferra, Listan, Malvoisie, Mourvedre, Muscat d' Alexandria, Ximenes
- 69 Portuguese
  - Alvarelhao, Bastardo, Donzellino, Gouveio, Sercial, Touriga
- 94 Swiss
  - Mondeuse

.855 Asiatic

.856 African

.87 Products of vinyards

.872 Table grapes — Culinary grapes

.873 Raisins
- Drying, dipping

634.9 **Forestry**

The following expansion is based on the Forestry classification prepared by a committee of the Society of American Foresters and publisht in Journal of forestry, Feb. 1923, 21: 152–61

.901 Theory
1 General conception, nature and extent
2 Classification
3 Value Importance Usefulness
4 Nomenclature Terminology
For discussion only. Dictionaries and glossaries ar clast under 634.903
.902 Compends
.903 Dictionaries Cyclopedias
.904 Essays Addresses Lectures
For *general* collections only; if, either singly or collected, they ar on a special topic they ar clast with that topic
.905 Periodicals
8 Yearbooks Directories
9 Kalendars Almanacs
.906 Associations Societies
1 Official organizations Government departments, etc.
For experiment stations see 634.9072
2 Unofficial organizations
3 Congresses Conferences
.907 Education Study and teaching
1 Forestry schools
2 Experiment stations
.908 Polygrafy Collections
.909 History and general local treatment
.9091 Comparativ study (national practises); .9093–9 divided like 930–999
.92 Economics
.922 Forest influence: geophysic
2 **On climate**
3 " **soil**
4 " **water resources and stream flow**
5 " **erosion**
7 " **avalanches**
.923 Forest influence: social
2 **On public helth**
4 " **ethics and morals**
6 " **esthetics**
Better clast by general libraries in 715.241
62 Forest parks
64 City parks and shade trees
.924 Relation to industries
Subdivided by industry like 620–699; e.g. 634.9242 Relation to mining; 634.92476 Relation to paper making. For industries not included in 620–699 use .9241 subdivided like main classification

634.925 Forest policy
1 **Special topics**
11 Conservation Reservation
12 Educational policy
Investigation and reserch. For experiment stations see 634.9072
13 Cooperation Demonstration
Financial aid by public authorities
14 Importance of forests
142 For watershed protection
143 " waterpower development
145 " timber production Silvicultural policy
16 Public ownership
17 Use of publicly owned forest land
See also 634.99
172 For mining
173 " farming
174 " grazing
176 " hunting, fishing, etc.
177 " recreation
Camping. Forest hotels and recreation centers
179 " other purposes
18 Government regulation of privately owned forests
19 Other
2 **Controlling and supervizory relations**
For general discussions of policy. Material relating to a special locality is clast in 634.9253–9
22 International policy
23 National "
24 State Provincial
25 Minor local divisions; city, etc.
26 Private ownership policy
3–9 **Local treatment**
Divided like 930–.999
.927 Forest resources
See also 634.9094–.9099
2 **Resources as a whole**
22 Production
24 Distribution
25 Exports: quantities, values, etc.
251 Tarif Duties
26 Imports: quantities, values, etc.
261 Tarif Duties
27 Consumption
3 **Timber**
May be subdivided like .9272
.928 Management
2 **Administration**
22 Personnel and staf organization
223 National
224 State Provincial
225 Municipal
226 Private
24 Business practis Accounting Bookkeeping
26 Equipment
General. Equipment for special purpose is clast under number for that purpose

634.9283 **Organization Regulation**
Preparation of working and planting plans
32 Fundamental premises and principles
322 Increment Increase
323 Rotation
324 Cutting cycle
325 Normal forest
33 Working plans Blocks
332 Surveys: forest, timber, planting Forest reconnaissance Collecting data
333 Determining treatment methods
334 Regulating yield or cut Determining felling budget
335 Control and revision of working plans
336 Working plans for special areas
4 **Finance**
42 Valuation
422 Economic and mathematic principles
423 Investments and costs in forest production
424 Valuation of entire forests
425 " " forest soil Land values
426 " " timber or growing stock
427 Stumpage values and appraisals
428 Appraisal of damages
43 Statics Comparison of values
432 Determining forestry profits
433 " forest per cent
434 Financial tests of treatment methods
435 Comparison of forest with agricultural values
44 Timber risks and insurance
45 " bonds
46 Forest taxation
Including tax laws
5 **Mensuration**
Determining volume of timber products and their growth and yield
52 Determining stand contents
522 Mesuring all trees
523 Using sample "
524 " " plots
525 Ocular estimation of timber stands
53 Stand growth Stand increment
531 Yield Yield tables Accident yield
532 Permanent sample plots
533 Age determination
534 Diameter growth
535 Hight "
536 Volume "
54 Standing trees mesurement
544 Diameter
545 Hight
546 Volume tables
2-5 Species
Subdivided like 634.972-.975
547 Taper tables
2-5 Species
Subdivided like 634.972-.975

634.928
548 Form factors
2-5 Species
Subdivided like 634.972-.975
55 Mesurement of feld trees
56 " " logs
57 " " lumber
58 " " other forest products
.93 Engineering
.932 Surveying
2 **Land surveying**
4 **Topografic surveying**
.934 Construction engineering Forest improvements
2 **Roads**
3 **Trails**
4 **Bridges**
5 **Fences Hedges**
6 **Bildings**
7 **Lookout towers Special protectiv works Signaling**
77 Heliograf
8 **Electric construction**
82 Lighting and power lines
86 Telegraf and telefone lines
.936 Hydraulic engineering
Including reservoirs, dams and condits
2 **Drainage**
3 **Irrigation**
5 **Domestic waterpower development**
.94 Forest botany
.942 Dendrology
Subdivided like 581: but clas Ecology in 634.646
.946 Ecology
Relation to environment. May be divided like 581.5, except for those topics specially provided for below
.947 Biologic dendrology
Relation of individual trees to environment
2 **Physiografic factors Site factors**
22 Light
23 Temperature
24 Precipitation
Floods, inundations
25 Humidity
26 Wind
27 Soils
273 Soil physics
274 " chemistry
277 " biology
2 Bacteria
4 Mycorrhiza
28 Water relations
Transpiration in relation to temperature, humidity, water and soil
6 **Climatic effects Acclimatization and adaptation**
8 **Geografic distribution by species**
Subdivided like 583-585
For geografic distribution by locality see 634.9093-9

634.948 Silvics
Reaction of tree aggregates to environment
2 **Forest types and site qualities**
207 Methods of study and mapping
22 Classification basis
23 Origin and development
Migration, invasion and establishment
24 Succession
25 Alternation and zonation
.949 Accessory forest vegetation
Subdivided like 580
.95 Silviculture
.952 Natural production sistems
2 **Clear cutting** **Clean cutting**
22 By strips
24 " groups
3 **Seed tree method**
Cleard except for certain seed trees
4 **Selection method**
Cutting according to age or size
5 **Shelterwood method**
Gradual removal, by partial cuttings, of the shelter or seed trees
6 **Coppice or sprout method**
7 **Coppice with standards** **Reserv sprout forest**
.953 Intermediate cuttings
2 **Improvement cuttings**
3 **Cleanings**
By animals etc.
4 **Liberation cuttings**
5 **Thinnings**
6 **Salvage cuttings** **Severance cuttings**
7 **Pruning**
.954 Marking
Scratchers, bark blazers, bark gages, tree scribes
.955 Brush disposal
Slash disposal
2 **Piling**
3 **Top-lopping and scattering**
4 **Burning**
.956 Forestation
1 **General questions**
13 Tools and equipment
2 **Seed**
22 Production and source
23 Collecting
24 Extracting Cleaning
25 Testing
26 Storing
27 Treatment of seed
Chemic etc.
3 **Direct seeding**
32 Methods
34 Protection
36 Results

634.9564 **Nursery practis**
42 Sowing
43 Fertilizing
44 Shading
45 Irrigating Cultivating Weeding
46 Transplanting
Ball planting
47 Control of growth
48 Temporary storage of stock
5 **Planting**
51 General questions
Sites and effect of cover
52 Kinds and classes of plant material
53 Methods of planting
56 Care and protection
58 Types of plantation
582 For investment
584 " wind breaks and shelter belts
585 " watershed protection
See also 634.925142
588 " shade trees, ornamental trees, etc.
Better clast in 715.2753
6 **Underplanting**
7 **Tree breeding**
8 **Introduction of species**
82 Exotics
84 Extension of range of nativ species
.96 Injury Protection
Subdivided like 632
.97 Taxonomic forestry
Forestry principles applied to individual tree species
.972 Important deciduous or broadleavd trees Dicotyledons
Most important species of commerce. Arranged in order of U. S. lumber production
1 **Oak** 4 **Chestnut** 7 **Linden** **Basswood**
2 **Maple** 5 **Beech** 8 **Elm**
3 **Poplar** 6 **Birch**
.973 Other dicotyledons
Subdivided like 583
.974 Monocotyledons
Subdivided like 584
.975 Conifer or evergreen species Gymnospermae
1 **Pine** 4 **Fir** 7 **Larch**
2 **Spruce** 5 **Cypress** 8 **Sequoia**
3 **Hemlock** 6 **Cedar** 9 **Other**
.976 Clast by special caracteristics
2 **Hardness** 3 **Weight**
22 Hard woods 32 Hevy woods
24 Semi-hard woods 36 Light woods
26 Soft woods 6 **Aromatic woods**

634.977 Mixt forests
2 or more species artificially combined in stands: e. g. pine and oak
.978 Conglomerate forests
.98 Forest product utilization
.982 Logging
2 Economics
25 Administration
253 Camp management
254 Camp equipment
255 Commissary Dietary
256 Sanitation
257 First aid Medical data
258 Veterinary data
3 Machinery and tools
4 Log making
42 Felling
43 Limbing
45 Bucking
5 Transport
52 Animal
522 Ground skidding, snaking and bunching
523 Wheeling
524 Trucking
525 Sled hauling
526 Trail chuting Trail sliding
53 Power
Steam, electricity or gas
532 Skidding and aerial tramways
534 Logging railroads
536 Tractors
54 Water
542 Rafting
543 Driving
545 Fluming and sluicing
547 Barging
55 Gravity chutes Timber slides
56 Hand logging
6 Log sorting Grading
.983 Rough-wood products
2 Logs **5 Piling** **8 Fuel wood**
3 Cross ties **6 Posts** **9 Other**
4 Poles **7 Mine timbers**
.984 Other lumber: by uses Forest lumber manufacture
Lumbering viewpoint only, and where affiliated with lumbering industry, Lumber manufacture in general, sawd and machined products and teknic of use ar better clast in 674
2 Box lumber
3 Cooperage lumber
4 Veneering "
5 Shingle and shake lumber
6 Excelsior lumber
7 Chemic uses of forest products
72 Charcoal lumber
73 Dry distillation lumber
74 Dyewoods
Including general works involving use of wood, bark, twigs, foliage, roots etc.

634.985 Bark products
2 Tanning barks **7 Medical barks**
5 Light-weight barks **8 Basts**
.986 Saps
2 Naval stores
22 Turpentine
See also in chemic teknology 665.3
24 Resin etc.
See also in chemic teknology 668.4
5 Rubber latex
See also rubber manufacture 678
6 Camfor
7 Food-product saps
72 Maple sap
See also 633.64
9 Other gums and resins
See also in chemic teknology 668.4
92 Spruce gum
.987 Fruits Seeds Nuts
Palm nuts
For cultivated nut trees (trees receiving individual attention) see 634.5
.989 Other forest products
1 Foliage
Pine needles. eucalyptus leavs, etc.
5 Parasite utilization Abnormalities
Subdivided like 580
5127 Galls
5415 Orchids
582 Mosses
8 Wastes
82 Thinnings
83 Dry fallen timber
84 Forest litter Fertilizer Muck
.99 Other uses
See also 634.92517 Forest policy, 715.25 Landscape art
.993 Farming
.994 Forest pasture Forest grazing
8 Foliage as fodder
.996 Hunting and fishing
2 Hunting
5 Fishing
.997 Recreation uses
Camping and outdoor life. Forest hotels and recreation centers
.998 Potable water protection
.999 Farm forestry Wood lots

635 Garden crops; kitchen and market gardening

Vegetable gardening

SUMMARY

.1 Edible roots, including tubers and bulbs
.2 Tubers and bulbs
.3 Edible leavs, flowers and stems
.4 Greens, pot herbs
.5 Salads
.6 Edible seeds and fruits
.7 Condimental and sweet herbs
.8 Mushrooms, truffles
.9 Floriculture

.1 **Edible roots**
.11 Beet
.12 Turnip
Usually a field crop. See 633.42
.126 Rutabaga Swedish turnip Turnip-rooted cabbage
.127 Navew, French turnip
.128 Celeriac, turnip-rooted celery
.13 Carrot
.136 Turnip-rooted chervil
.137 Chicory
Better in 633.78
.14 Parsnip
.15 Radish
.16 Salsify, oyster plant, vegetable oyster
.166 Scorzonera, black salsify
.167 Scolymus, Spanish salsify
.2 Edible tubers and bulbs
.21 Potato
.22 Sweet potato, Spanish potato, batata
.23 **Yam**
.24 Jerusalem artichoke, topinamber
.25 Onion
.26 Other plants of Allium family
.261 **Leek**
.262 **Garlic**
.263 **Shallot, scallion**
.264 **Cibol, Welsh onion** (French, ciboule)
.265 **Cive, chive**

635.3 **Edible leavs, flowers and stems**
.31 Asparagus
.32 Artichoke
.327 Cardoon, chardoon
.33 Sea kale
.34 Cabbage
.346 Kale or borecole
.347 Collards
.348 Kohlrabi
.35 Cauliflower
.356 Broccoli
.36 Brussels sprouts
.4 Greens
.41 Spinach
.42 Chard, sea-kale beet, Swiss chard
.43 Orach, French spinach
.44 Mustard
.45 Sorrel Dock
.46 Dandelion Purslane (pusley)
.48 Rubarb
.5 Salads
.51 Bitter salads
Dandelion. See 635.46
Cardoon. " 635.327
.52 **Lettuce** *Lactuca sativa*
.53 **Celery** *Apium graveolens*
.54 **Chicory or succory** *Cichorium intybus*
Also used as pot herb and root
.55 **Endive** *Cichorium endivia*
.56 Piquant or warm salads
Clas any species or variety with its genus; e. g. bitter cress, *cardamine amara* with 635.562
.561 **Water cress** *Nasturtium officinale*
.562 **American water cress** *Cardamine rotundifolia*
.563 **Garden cress** *Lepidium sativum*
.564 **Winter cress** *Barbaria vulgaris*
.565 **Swine cress** *Senebiera coronopus*
.566 **Indian cress** *Tropaeolum majus*
For mustard see 635.44
.57 Neutral salads
Lamb's lettuce, corn salad, fetticus

635.6 Edible seeds and fruits

.61 Melons

.611 Muskmelon: cantaloup, nutmeg, winter, etc.

.615 Watermelon: preserving or " citron "

.618 Zit kwa, wax gourd

Chinese preserving melon, Chinese watermelon

.62 Squashes

.621 Summer or bush squashes

Crooknecks, scallop or pattypan, pineapple

.622 Fall and winter, or longrunning squashes

Canada crookneck, Hubbard

.623 Vegetable marrow

.624 Pumpkins

.627 Luffa, rag gourd, dishcloth gourd, vegetable sponge

.63 Cucumbers Gherkins Martynia

.64 Tomato

.646 Egplant, guinea squash, aubergine

.647 Physalis, husk tomato, strawberry tomato

.648 Okra or gumbo

.65 Legumes Beans

.651 Broad bean

.652 Kidney bean: garden, snap and string bean; haricots

.653 Lima or sugar bean

.654 Dolichos

.655 Soy or soja bean

See 633.34

.656 Peas

.657 Chick pea *Cicer arietinum*

.658 Lentils *Lens esculenta*

.659 Other legumes

Peanuts; see also forage crops 633.36

.67 Sweet corn

.677 Pop corn

.7 Condimental and sweet herbs

For the regular condiments of commerce see 633.84 and 664.5

.71 Seasoning leavs and flowers

.72 Garden mint, spearmint

.74 Flavoring for pickles, vinegar, etc.

Dil, tarragon, samfire, costmary

.75 Seeds for flavoring

Anis, coriander, caraway

.76

.77

.78 Garnishes: parsley, leaf chervil

.8 Mushrooms, truffles

635.9 Floriculture

Growing for market and marketing flowers and ornamental plants, and growing them for home, park and cemetery embellishment

Clas here works on methods of raising flowers. For study of flowers from artistic side and for their artistic effect in relation to gardens and grounds see 716.2. For botanic treatment see 580

01–09 may be used as under 634.9 Forestry

.909 **History and general local treatment**

Divided like 930–999

Clas descriptions of individual flower gardens in 712.6 and 716.2

.91 Economics and operations

Divide like 631

.92 Hindrances

Divide like 632

.93 Plants by life duration Species

Clas here general works on herbaceous plants

Clas under subdivisions of .93 all works on *individual* flowering plants, except trees (see 635.977) using the later hedings, which treat floriculture from other points of view, e.g. bulbs, potted plants, greenhouse plants (under several of which a single plant might appropriately appear) only for works treating the distinctiv feature in a general way or including several species which would botanicly be clast under various numbers

.931 Annuals and biennials

2 **Resistance to cold**

22 Tender

24 Half hardy

26 Hardy

.932 Perennials

See note under 635.933–.939

2 **Resistance to cold**

Subdivided like 635.9312

.933–.939 Species etc.

Divided like 583–589. It is strongly recommended that all individual families, genera and species (except trees, see 635.977) be clast here, but if preferd those which ar exclusivly either annuals and biennials or perennials, may be clast in 635.931 and .932, subdivided by 3–9 and further subdivided like 583–589

.94 Plants by means of propagation

Under each of the following subdivisions Resistance to cold may be expreat by 2, further subdivided like 635.9312

.942 Seeds

.944 Bulbs, tubers etc.

.946 Runners, layers

.948 Cuttings, slips etc.

.95 Special conditions of growth

.952 Climate

2 **Tropic plants Tender plants**

3 **Temperate zone plants**

4 **Arctic plants**

6 **Alpine or mountain plants**

8 **Effect of climate on species**

Subdivided like 580

9 **Effect of climate by locality**

Subdivided like 940–999

635.953 Season and hour of flowering
- 2 **Spring**
- 3 **Summer**
- 4 **Autumn**
- 5 **Winter**
- 7 **Morning**
- 8 **Evening**

.954 Environment as related to light
- 2 **Sunny**
- 4 **Shady**

.955 Soil
- 2 **For moist soils**
- 3 " **dry** "
- 4 " **rich** "
- 5 **For poor soils**
- 6 " **chalky** "
- 7 " **sandy** "

.96 Purpose

.962 Beds

.963 Borders or edging

.964 Gras and lawn flowers

.965 Growing plants Potted plants
- 2 **House plants**
  - 22 In pots, vases, water etc.
    - 222 In soil and pots
    - 223 " fiber and vases
    - 224 " water and pebbles
    - 225 " moss
    - 226 As air plants
  - 23 Flowering plants
  - 24 Vines
  - 26 Foliage plants, ferns etc.
  - 28 Bulbs, tubers etc.
- 3 **For temporary decoration**
  Weddings, receptions, church servises, etc.
- 5 **Flower shows Exhibits**

.966 Cut flowers
- 2 **General use**
- 3 **Decoration**
  Weddings, receptions, church servises, etc.
- 4 **Floral designs**
  Funerals etc.
- 5 **Flower shows Exhibits**

.967 Special kinds of gardens
- 2 **Rock plants Alpine plants**
- 4 **Water gardens Aquatic plants**
  Lake and brookside plants
- 6 **Woodland (wild flower) gardens**

.968 Other purposes

.969 Nurseries
- 9 **Seed production**

635.97 Other groupings

.972 Oldfashiond plants

.973 Everlastings

.974 Climbing plants
- 2 **Vines**
  - 22 Annual vines
  - 23 Hardy "
- 8 **By uses**
  Ground coverers, wall coverers, etc.

.975 Foliage
  For grasses see 635.9349
- 2 **Colord**
- 3 **Green**
  For cactuses see 635.93347I
  - 32 Ferns
    - 328 By uses
      Living room ferns (pot ferns, basket ferns), stove ferns, conservatory and greenhouse ferns
  - 34 Asparagus
  - 36 Mosses

.976 Shrubs Hedges
- 3 **Deciduous shrubs**
  - 32 Flowering
  - 33 Ornamental fruiting
  - 34 " foliage
  - 35 Climbing
    635.976352–4 may be used like 635.97632–4
- 4 **Evergreen**
  May be subdivided like 635.9763
- 5 **Conservatory shrubs**
  - 53 Deciduous
  - 54 Evergreen
- 8 **Hedges**
  - 83 Deciduous
  - 84 Evergreen

.977 Trees
  Clas here commercial raising of ornamental trees. For their use see landscape gardening 715.25. See also in agriculture 631.537 Nurseries; 634 Fruits, orchards; 634.9 Forestry
- 3–5 **Species**
  Divided like 583–585
- 6 **Deciduous**
  635.97762–4 may be used like 635.97632–4
- 7 **Evergreen**
- 8 **Shade trees**
  - 83 Deciduous
  - 84 Evergreen

635.978 By physical effects
- 2 **Color**
  - 22 White
  - 23 Violet or purple
  - 24 Blue
  - 25 Yellow
  - 26 Orange
  - 27 Red
  - 28 Pink
  - 29 Other colors
    - 295 Brown
- 3 **Odor**
  - 32 Fragrant
  - 33 Malodorous
- 4 **Feeling**
  - 44 Roughleavd
  - 45 Irritant

.98 Under glas
- .982 Greenhouses Conservatories
- .983 Hotbeds
- .984 Cold frames
- .985 Bel glasses
- .987 Forcing

636 Domestic animals Live stock

.08 **Zootechny**

The breeding and keeping of animals in domestication

SUMMARY

- .081 Selection Economics
- .082 Formation of stock, races, breeding
- .083 Care
- .084 Feeding
- .085 Food; general questions
- .086 Foods; divided like 633
- .087 Other foods
- .088 Utilization and training
- .089 Hygiene Diseases

.081 Selection Economics, etc.
- 1 Selecting and acquiring stock
  - 11 **Capture**
    Of wild animals and of domesticated animals allowd to run wild.
    " Round up " of western ranches
    - 111 Capture by snares, traps, nets, etc.
    - 112 " " wepons, guns, etc.
    - 113 " " help of other animals, dogs, horses, ferrets, hawks, etc.
  - 12 **Purchase Original cost**
  - 13 Barter Horse trade
  - 14 Standards of excellence Points
  - 15 Soundness Imperfections Blemishes
  - 16 Estimating age
- 2 Brands and branding and other marks of ownership
  - 28 **Catalogs of brands**
- 3 Stock farms Ranches
  - 31 **Descriptions of individual farms**
    Alfabetic
- 6 Finances and accounts
  - 7 **Expenses**
    - 71 Supplies, food, etc.
    - 73 Wages
    - 75 Insurance
  - 8 **Returns, yield, profit**
    - 81 Weight tables
    - 87 Stock farm catalogs
    - 88 Catalogs of sales

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636.082 Formation of stock
Races, breeding, heredity, etc.
1 Character of herd, flock, colony, etc.
11 **Species, races, breeds, strains; heredity, variation**
2 Herd books, stud books, flock books, etc.
3 Composition of herd, flock, colony
Including notes and articles about the different kinds
31 **Male**
32 **Female**
33 **Neuter** (of bees)
34 **Castrated animals**
342 Males
345 Females
35 **Young animals**
352 Males
355 Females
36 **Culling**
4 Breeding Reproduction
41 **Breeding in and in**
Line breeding. Animals closely related by blood
43 **Cross breeding**
431 Hybrid
Individuals of different species
432 Métissage
Individuals of different races
44 **Choice of parents**
45 **Generation**
451 Sexual excitement: heat, rut
452 Sex control
453 Sexual union
454 Impregnation Sterility
Fusion of male and female element
455 Gestation
456 Birth
Abortion
46 **Laying of egs**
461 Nests
47 **Incubation Hatching**
471 Natural
474 Artificial Incubators
.083 Care of animals
1 Housing
Stalls, boxstalls, pens, nests
2 Care of stables or houses
Cleanliness, bedding
3 Care of animals
Grooming, clipping
37 **Special care of young**
Brooders 636.508337
4 Care of feet Shoeing
5 Care of animals outdoors
Shepherds, watch dogs, etc. Protection from beasts of prey; pumas, foxes, etc.
6 Acclimatization
61 **Protection from cold: blankets**
62 " " **heat**
66 " " **wind and rain**
7 Care of harnesses and accouterments

636.084 Feeding
1 Feeding of young
11 **Suckling**
12 **Weaning**
13 **Hand or artificial feeding**
2 General methods of feeding
21 **In stables, houses, etc.**
22 **In pasture Grazing**
23 Mountain pastures, forests, ranches, ranges
31 **Special provisions: water, salt, etc.**
4 Ordinary, rational feeding
41 **Rations Amount and proportion**
42 **Kind and times of feeding**
45 **Substitutions Variety**
5 Feeding for special purposes
51 **For breeding time**
52 **For increast production: milk, egs, etc.**
53 **For work**
55 **For fattening**
56 Forced feeding, cramming
.085 Food
Standards
1 Composition
Analysis
2 Nutritiv value
Digestibility; fuel value
3 Food experiments
4 Commercial value
5 Different kinds of food
For individual foods see 636.086 and .087
51 **Fresh or green fodder**
52 **Silage**
54 **Dry fodder**
Hay, straw, grains
57 **Prepared foods**
Industrial residues Cakes of oily grain or fruit
6 Preparation and use of food
9 Adulterations of foods for animals
.086 Foods
Divided like 633
13 **Oats**
15 **Corn**
2 Forage crops, hay
25 **Straw**
255 Cornstalks
32 **Clover**
41 **Beets**

636.087 Other foods
4 **Fruits**
Divided like 634
5 **Garden crops**
Divided like 635. Use only for material not coverd by subdivisions of 633
6 **Animal food**
7 **Mineral foods: salt, condiments**
.088 Utilization and training of animals
1 For breeding purposes
2 For work
3 For production of food: meat, egs, etc.
4 For animal products
Wool, skins, fethers, etc.
6 Breaking, training, etc.
61 To saddle, etc. for carrying purposes
62 To harness, for work
66 Special training
661 Carrying messages
662 Hunting
.089 Hygiene, diseases, etc.
Hygiene is usually better clast 614.9, and Diseases 619
636.0891–.0898 may be subdivided like 611–618
1 Anatomy
2 Physiology
3 Hygiene
5 Remedies, materia medica
6 Diseases Diagnosis
7 Surgical operations
.1 **Horse**
636.108 may be subdivided like 636.08, but utilization is partly provided for under .11–.16 below
.11 Oriental horse
Arabian, Persian, Tartar, Turkish, Barb
.12 Speed horse, race horse, light type, 'hot blooded'
.121
.122 English thorobred or running horse
.127 Other European
1 **Russian Orloff trotters**
.128 American trotter or pacer
1 **Morgan**
.13 Saddle horse
Hunter; military (charger, cavalry horse, etc.), American saddle, Kentucky saddle, cob, park hack, palfrey

636.14 Coach or carriage horses
Harness horse
.142 English coach
1 **Cleveland bay**
2 **Yorkshire coach**
3 **Hackney**
.143 German coach
East Prussian or Trakehner, East Friesland, Rhenish Prussian, Mecklenburg, Schleswig, Hanoverian, Oldenburg, Holstein
.144 French coach, 'demisang'
.145 Italian: Corsican
.15 Draft horse, cart horse, hevy type, 'cold blooded'
.152 English
1 **Clydesdale**
2 **Suffolk punch or draft**
3 **Black or shire draft**
.154 French and Belgian
1 **Norman, Percheron**
2 **Ardennais**
3 **Boulonnais**
4 **Breton**
5 **Nivernais**
8 **Belgian draft, Flanders dray, Flemish horse**
.158 American draft
Conestoga
.16 Ponies
.161 Ponies for special purposes: polo
.162 Scotch, English and Welsh
1 **Shetland**
2 **Galloway**
4 **Exmoor**
5 **Dartmoor**
6 **New Forest**
9 **Welsh**
.168 American
Mustang, bronco, Indian pony
.18 Allied animals
.182 Ass: jackass, donkey, burro
Asiatic, Catalonian, Italian, Maltese
.183 Mule, hinny
.184 Zebra, quagga, etc.
.185 Zebrule, zebroid

636.2 Cattle Greater ruminants

May be divided like 636.081–.089, but for utilization use .21

.21 Uses

Subdivide like 636.088 See note above

.22 English cattle

.221 Old stocks

Forest cattle, wild white, Chillingham

.222 Beef breeds

1 **Short horns**

2 Durham

3 Teeswater

4 Lincolnshire

5 Red shorthorn

6 **Hereford whitefaced**

7 Polled Hereford

8 **Sussex**

.223 Scotch, Welsh and Irish beef breeds

1 **Aberdeen Angus**

Angus doddie, Buchan humblies, polled Aberdeen

2 **Galloway**

Blue gray

3 **West highland: Kyloe**

6 **Black Welsh**

.224 Dairy breeds

1 **Channel iland cattle**

2 Alderney

3 Jersey

4 Guernsey

.225 **Scotch and Irish dairy**

1 Ayrshire

2 Dunlop

3 Cunningham

6 Kerry

Dexter Kerry, Dexter shorthorn

.226 Dual purpose breeds

1 **Devon**

North Devon, Rubies, South Devon

2 **South Hams**

Hammers

3 **Polled Durham**

4 **Red polled**

5 Norfolk

6 Suffolk

7 East Anglian

8 **Longhorn (English)**

Dishley

636.23 German, Dutch and Swiss cattle

.232 Beef breeds

.234 Dairy breeds

1 **Holstein**

2 **Holstein Friesian**

3 **East Friesian**

4 **Oldenburg**

.235 **Dutch**

1 Dutch Friesian, Netherland, North Holland

4 Dutch belted: Lakenfelds, Lakenvelders, Veldlakers

6 **Danish**

7 Jutland

.236 Dual purpose

.237 **Swiss**

1 Brown Swiss

2 Simmental

3 Bernese

4 Spotted race

.24 French and Belgian

.242 Beef

.244 Dairy

1 **Breton, Brittany**

.245 **Belgian dairy**

1 Flamande, Flemish

2 Rosenstein

.246 Dual purpose

1 **Norman**

2 Cotentin

.27 Other European

.271 Russian

Kolmogorian

.28 Other countries

.282 American beef breed

1 **Longhorn, Texas steer**

.283 American dairy breed

1 **American Holderness, Holderness**

2 **French Canadian, Quebec Jersey**

.29 Allied animals

.291 Brahmin sacred cattle; zebu

.292 Bison family

1 **Bison; American buffalo**

2 **Cattalo**

Hybrid of bison and cow

3 **European bison**

636.293 Other bovidae
1 Bovinae
Clas here general works on bovinae, unless mainly relating to domestic cattle, 636.2. See also 636.291 Brahmin sacred cattle, zebu; 636.292 Bison family
2 **Buffalo or water buffalo** *Bubalus*
Bhains, mhains, arna, arni (Hindu)
Moonding (Sudan)
Karbo or Karbon (Malay)
Carabao (Philippines)
3 **Yak**
4 **Gayal, gaur**
5 **Musk ox**
7 **Rocky mountain goat**
8 **Antelope**
.294 Deer, reindeer
.295 Camel: Arabian, Bactrian; dromedary
.296 Other camelidae: lama, llama, alpaca
.3 **Sheep, goats** **Smaller ruminants**
May be divided like 636.081–.089, but for utilization use .31
.31 Uses
Subdivide like 636 088 See note above
.32 English breeds
.321 Longwool breeds (coarse wool)
1 **Cotswold**
2 **Leicester**
English Leicester, New Leicester or Dishley, Bakewell's Leicester
3 **Border Leicester**
Halfbred or Leicester-Cheviot or Cheviot-Leicester or Upland Leicester
4 **Lincoln**
5 **Kent or Romney marsh**
6 **Wensleydale**
Bluefaced Wensleydale, Wensleydale longwool, Wensleydale blueface, Teeswater
7 **Devon longwool, Southam notts, Bampton notts**
8 **South Devon or South Dum**
9 **Roscommon**
.322
.323 Shortwool breeds
Medium-wool; middle-wool; down sheep; mutton sheep
1 **Southdown, Sussex, Sussex down**
Including Underhill and Upperdown
2 **Hampshire down, improved Hampshire down, Wiltshire brook, Berkshire knot, Wiltshire hornd**
3 **Dorset down or West country down**
4 **Oxford or Oxfordshire down**
Before 1859 cald Down-Cotswold
5 **Suffolk down, old Norfolk, hornd Norfolk**
6 **Shropshire down, Morfe common**
.3241 **Dorset and Somerset horn**
2 **Ryeland or Lempster**
3 **Clun Forest, Wicklow (Irish)**
4 **Kerry Hill (Irish)**
5 **Radnor**

636.325 Mountain breeds
1 **Cheviot**
2 **Blackfaced**
Scotch blackface or blackfaced Scotch, Linton Forest, Lammermuir, Tweeddale, blackfaced highland
3 **Herdwick**
4 **Lonk or Lank** **Lancashire blackfaced**
5 **Penistone**
6 **Limestone, Limestone Crag**
7 **Ruf Swaledale**
8 **Shetland, Orkney, Hebrides**
.3261 **Derbyshire gritstone**
2 **Dartmoor**
3 **Exmoor** **Exmoor horn**
4
5
6 **Cornwall**
7 **Welsh mountain**
.33 German and Dutch breeds Swiss
.331 Low country or marsh sheep
Hornless and short taild
1 **Dutch Texel**
4 **Friesian**
East and North Friesland, Eiderstedt, Ditmarsh, Butjading, Zealand
7 **Northeast German**
Vaga, Elbingen
.333 Upland sheep, heath sheep (German heidschnucken)
1 **Pomeranian or Polish, Mecklenburg** (Spiegelschaf)
2 **Hessian**
3 **Bavarian or Zaupel** **Franconian (Frankenschaf)**
4 **Rhine**
5 **Hanoverian, Münster**
6 Styrian or Carinthian Swiss
.34 French and Flemish breeds
.342 Central plateau breeds
1 **Auvergne**
2
3 **La Marche**
4
5 **Limousin**
6
7 **Saintonge**
.344 Loire basin and north France breeds
1 **Berrichonne** (Crevant, Cher, Indre)
2 **Solognote** (Sologne)
3 **Comtoise** (Franche-Comté)
4 **Ardennes** (Poitou)
5 **Percheron** (Perche)
6 **Angevin** (Anjou)
7 **Cotentin**
8 **Bretagne**
9 **Charmoise** (Loir et Cher)

636.346 Pyrenese breeds
- 1 **Basquaise**
- 2 **Béarnaise**
- 3 **Landaise**
- 4 **Gasconne**
- 5 **Lauraguaise**
- 6 **Lot**
- 7 **Albigeois**
- 8 **Aveyron**
  - Varieties: Larzac, Lacaune, Olempe, Cevennes, Causse
- 9 **Barbarins**
  - Varieties: Millery, Lahune, Marthold

.35 Italian
- Neapolitan: long, broad or fat taild Bergamasker; Paduan; Italian or Sardinian, mountain

.36 Spanish breeds Merinos, etc.
- .361 Escurial or Estremadura
- .362 Guadalupe
- .363 Pavlar
- .364 Infantado
- .365 Nigretti
- .366 Other Spanish
  - Aguirre, Atwood, Montares, Leonese, Churra
- .367 Other European merino breeds
  - 2 **British**
  - 3 **German**
    - 31 Prussian
    - 32 Hanoverian
    - 33 Saxon
    - 34 Silesian
    - 37 Hungarian
  - 4 **French: Rambouillet**
  - 8 **Danish, Swedish, etc.**
- .368 Other merino breeds
  - 1 **American**
  - 2 **Delaine**
  - 3
  - 4 **Australian**

.37 Other European sheep
- .371 Russian
- .372 North Europe: Scandinavia, Iceland, Faroe ilands
  - Ovis brachyura borealis
- .373 Southeast Europe
  - Long tail, broad or fat tail: Macedonian or Clementine
  - Long tail and small tail, mixt wool: Cretan, Macedonian, Wallachian, Moldavian or Hungarian

636.38 Other countries

.385 Asiatic
- Short tail, hornd: Tartar, Kalmuck, Kinghir, Buriat fat rump (ovis steatopyga); stump tail (ovis brachycerca). See also 636.386
- Short tail, hornless: Mecca fat rump, Chinese (ongtischaf), Persian
- Long tail, broad or fat tail, dumba (ovis platyura): Syrian, Anatolian, Karamanian or Levant, Persian, Bokhara, Karakul
- Arabian or Bedouin
- Kabardian or Circassian

.386 African sheep
- Long tail, broad or fat tail: Egyptian, Tunisian, Berber or Algerian
- Long and small tail, hevy fleece: Bischarin (Nubian), dinka (sheep with manes, ovis africana), high leg or Guinea sheep (Kongo), Morvan (longipes), Libyan or Fezzan, Zunu or Angola
- Stump tail (ovis brachycerca). See also 636.385

.39 Goats
- May be divided like 636.081–.089, but for utilization use .391

.391 Uses
- Subdivide like 636.088 See note above

.392 British goats
- Irish goat, longhaird
- English goat, shorthaird

.393 German and Austrian goats
- Harz mts, Hinterwald, Hungarian, Langensalza, Saxony, Schwarzwald, Starkenburg, Westphalian, Wiesental
- 6 Swiss goats
  - Alpine or common goat
  - Blackneckt Valais, Schwarzhals or Schwarztal, Glacier, saddle Guggisberg
  - 7 **Toggenburg**
  - 8 **Appenzell or flat-heded**
  - 9 **Saanen or Sarnen, Gessenay or Gassenay**

.394 French goats: Tarentaise

.395 Italian goats: Maltese

.396 Spanish goats
- Hornless, Granada, Malaga
- Shorthaird reds, Spanish-Maltese

.397 Other European goats

.398 Other goats
- 1 **American goats**
- 5 **Asiatic goats**
  - Tibet (China), Angora (Persia), Syrian
  - 54 India
    - Kashmir (or shawl Tibet), Nepal (variety of Nubian), Surats, Tahr (shaggy brown Himalayan goat)
- 6 **African goats**
  - Abyssinian (or Nubian), Guinea
  - 62 Egypt
    - Egyptian (or Niie), Theban, Zaraibi

636.4 **Swine**

May be divided like 636.081–.089, but for utilization use .41

.41 Uses

Subidivide like 636.088 (see note above) further subdividing .413 as follows: .4132 Bacon breeds, .4133 Lard breeds

.42 English breeds

.421 Small colord breeds

Use also for small breeds in general

1 **Essex**
2 **Sussex**
3 **Suffolk**

.422 Small white breeds

1 **Windsor**
2 **Small Yorkshire**
3 **Coleshill**

.423 Large colord breeds

Use also for large breeds in general

.424 Large white breeds

1 **Yorkshire**
2 **Lancashire**
3 **Cumberland**
4 **New Leicester**
5 **Lincolnshire**
6 **Suffolk**

.426 Medium colord breeds

Use also for medium breeds in general

1 **Black Berkshire**
2 **Red Tamworth**
3 **Red Berkshire**

.427 Medium white breeds

1 **Middle Yorkshire**
3 " **Suffolk**

.43 German and Dutch breeds

.431 Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian, Franconian, Halle, Suabian
Düsseltaler, Glanschwein, Luzern, Wurtemberg

.432 Hungarian short ear

Carpathian, Bergschlag
Bakonyer or Bakouner
Szalontaer

.433 Western and Northern Germany

Use this also as general number for large-ear. Large Polish, Meissner

.434 German marsh swine, large ear

Danish ilands, Holland, Mecklenburg, Schleswig-Holstein
Hanover, Jutland, Oldenburg, Westphalia

636.44 French

.441 Large-ear French Celtic breed

Northeastern France
Champagne

.443 Northwestern France

Breton
Norman Augeronne
Craonnaise
Mancelle
Angevin

.445 Southwestern France Spanish origin

French Perigord
Quercy
Limousin
Gasconne
Béarnaise

.447 Southeastern France

Provence
Roussillon
Languedoc
Bressane

.449 Swiss

Grison Bündener

.45 Italian, Neapolitan, Maltese, Tuscan, Romagnole

.46 Spanish and Portuguese

.47 Other European

.471 Curly bristles Southeastern Europe

.472 **Serbian Syrmian**

Mongolicza or Mangalicza
Curly-bristle Hungarian
Milos
Sumadia or Obrenovics

.473 **Croatian**

.474 **Rumanian, Moldavian**

Anatolian
Albanian

.475 **Russian**

.48 Other countries

.481 American breeds

.482 **Poland-China**

.483 **Red Jersey or Duroc-Jersey**

.484 **Other American**

1 Chester white
2 Hampshire
3 Cheshire
4 Victoria
9 Mulefoot Razorback

.485 Asiatic: Chinese, Tonkin, Siamese

.486 Africa

Cape breeds, Sennar, Guinea

.489 Oceania

Papuan

636.5 Poultry

May be divided like 636.081–.089, but for utilization use .51

.51 Uses

Subdivide like 636.088; e. g. 636.513 Capon. See note above

.52 English breeds

.521 Dorking

.522 Sussex or Surrey

.523 Kent

.524 Orpington

.525 Redcap

.526 Other English

Lincolnshire buffs

.527 Scotch grays

.528 Other Scotch

Scotch bakies or dumpies Jumpers Dumbartonshire

.53 German and Dutch breeds

.531 Hamburg

.532 Lakenfelds

.533 Ramelsloher

.536 Styrian

.537 Bohemian

.538 Other

East Friesian, Westphalian, Thuringian, Alsatian, Nassau, Augsburg, etc Magyar

.54 French and Belgian breeds

.541 Crèvecoeur

.542 Houdan

.543 La Flèche Le Mans Caux

.544 La Bresse, Louhans, Bourg, Bourbourg, Barbézieux, Caussade, Courtes-pattes

.545 Faverolles

.546 Gournay, Pavilly, Caumont

.547 Other

Coucou, French cuckoo, Mantes, Estaires

.548 Belgian breeds

Campenes or Campines, or Brackel; Brabant. Huttegen Bredas or Guelders or Guelderlands. Coucou de Malines. Bruges

.55 Italian breeds

Use also as general number for Mediterranean breeds

.551 Leghorn

.552 Paduan or Polish (in England)

Also called Pompadour, Padouse, Polanders

.553 Polverara

.554 Ancona

636.56 Spanish breeds

.561 Castilian

.562 Minorcan

.563 Black Spanish

.564 Blue Andalusian

.565 Prat

.57 Other European

.571 Pavloff (Russian)

.572 Siberian fetherfooted

.573 Sultans

.58 Other countries

.581 American breeds

1 **Dominican, Dominique, Dominiker**

2 **Jersey blue**

3 **Bucks county**

4 **Java**

5 **Buckeye**

6 **Winnebago**

.582 **Plymouth rock**

.583 **Wyandotte**

.584 **Rhode Island red**

.585 Asiatic breeds

1 **Cochin China** **Shanghai**

2 **Brahmaputra** **Brahma, Gray Chittagong**

3 **Langshan**

4 **Malay**

7 **Japanese fowls**

White Yokohama

Phoenix

.587 Special varieties

1 **Bantams**

11 Common

12 Game

13 Polish

14 Asiatic

15 Japanese

.588 Other

1 **Game**

11 Azeel or Aseel

12 English game

13 Sebright (a bantam only)

14 Cornish Indian, or Indian (in England), or Cornish (in America)

15 Malay

2 **Deformd**

Rumpless or tailless or Wallikiki; Turkey necks, naked necks, Gillikins, nude

3 **Silkies**

4 **Frizzles**

636.59 Other fowls
·592 Turkey
1 **Original species**
11 American, or N. American 'original' or wild turkey (meleagris Americana)
12 Mexican wild turkey (meleagris Mexicana)
13 Honduras wild turkey (meleagris ocellata)
14 Crested turkey
2 **Bronze**
English Cambridge turkey
3 **Narragansett**
4 **Buff**
5 **Slate or Austrian whites** (in England)
6 **White, or White Holland** (in America)
7 **Black, or Norfolk or black Norfolk** (in England)
8 **Bourbon red, or Bourbon butternut, or Kentucky red**
·593 Guinea fowl
·594 Fezant
·595 Peacock
·596 Pigeons
1 **High clas fancy pigeons**
11 Pouters
12 English carrier
13 Runt
14 Barb
15 Shortface tumbler
2 **High clas toy pigeons**
21 Fantail
22 Owls
23 Turbits
24 Frilbacks
25 Jacobins
26 Trumpeters
27 Scandaroons
28 Florentine amalgamated, Hen
31 Dragoon, Horseman
32 Priests
33 Brunswick
34 Oriental frils
35 Homers, white homing, Antwerp
4
5 **Other toy pigeons**

636.597 Ducks
2 **English breeds**
21 Aylesbury
22 Indian runner
23 Blue Swedish
4 **French breeds**
Rouen, colord Rouen, also cald Rhone and Roan
8 **Other countries**
81 American
82 Cayuga, black Cayuga
Also called Big black and Lake duck
83 Muscovy
Colord Muscovy, Musk duck, white Muscovy
85 Asiatic: Pekin, white Pekin
By Chinese cald Mandarin
·598 Goose
3 **German: Emden, white Emden**
4 **French: Toulouse, gray Toulouse**
7 **Sebastopol**
8 **Other countries**
81 Wild or Canadian Gray wild
85 Chinese: white, brown
86 African
Also cald Indian, gray African and Guinea
87 Egyptian Colord Egyptian
89 Spurwing (Australia)
.6 Birds
For poultry see 636.5. Here ar clast domesticated birds useful for plumage or work, and pet birds
.61 Birds useful for their fethers
For geese see 636.598
.611 Ostriches
.62
.68 Song and ornamental birds
.681 Swan
.686 Cage and aviary birds
.7 Dogs
May be subdivided like 636.081—.089, but for uses see 636.72—.765
.71 Breeds
.72 Utility dogs
.73 Draft and other work dogs
.74 Watch dogs, herd dogs
.75 Hunting and sleuth dogs Carrier dogs
.76 Pet dogs
.765 Toy dogs
.77 Dogs in art
See also 758 Animal painting
.78 Dogs in literature
Essays, stories, biografy, etc.
.79 Other topics

636.8 Cats
.81 Breeds
.87 Cats in art See also 758 Animal painting
.88 Cats in literature
Essays, stories, etc.
.9 Other: rabbits, guinea pigs, elefants, etc.
Fur farming Fox, skunk, etc. farms.

637 Dairy and dairy products

.1 Milk
.11 Economics
.113 Dairy farms
Description of individual farms
.116 Finances and accounts
.117 Expenses
.118 Returns
.1185 Sale price
.12 Production and composition
.121 Choice of dairy cows
.122 Special food
.124 Milking
Milk pails, milk stools, milking tube
.125 Artificial milkers
.127 Composition of milk
1 Fat
2 Lactose, milk sugar, lactin; galactin
3 Casein
6 Milk testing
Creamometer Lactobutyrometer Lactodensimeter Lactoscope
Galactometer Lactocrite Lactometer Percent tube
7 Milk analysis
.13 Care of milk
.131 Bildings, dairies
.132 Installation, apparatus
1 Refrigerating apparatus, milk cooler
2 Heating apparatus
3 Pasteurizers
7 Receptacles Storage Milk pans
.133 Preservation
1 Chilling
2 Heating
3 Pasteurizing
.135 Transportation and sale of milk
Milk cars, milk wagons, bottles, cans

637.14 Utilization Consumption
.141 Whole milk
5 Evaporated milk
.142 Condenst milk
.143 Milk powder
.144 " farina
.145 " sugar
.146 Fermented milk Kumis
.147 Skim milk
.148 Cream
.16 Accidents Alterations Diseases Impurities Adulterations
See also public helth 614.32
.17 Milk other than cow's milk
.171 Mare's milk
.172 Ass's "
.173 Ewe's "
.174 Goat's "
.18 Substitutes for milk
.181 Vegetable milks
.2 Butter
.21 Economics
.216 Finances and accounts
.217 Expenses
.218 Returns
5 Sale price
.22 Composition
.221 Character and properties of butter
.222 Constituents of butter
.223 Grades of butter
.225 Butter testing
.227 " analysis
.23 Preparation of butter
.231 Bildings Creameries Butter factories
.232 Installation, apparatus
1 Separators
11 Skimmers
12
13
14 Centrifugal separators
2 Churns
3 Washers
4 Workers
8 Presses, molds, stamps, etc.

637.233 Butter making
1 **Separating cream**
2 **Churning**
3 **Washing**
4 **Working**
5 **Salting**
6 **Pasteurization**
7 **Ripening**
.235 Transport and packing
1 **Methods of packing** **Receptacles**
.24 Utilization Consumption
Including residues
.247 Buttermilk
.26 Alterations Diseases Impurities Adulterations
.27 Renovation
.28 Substitutes for butter
.281 Oleomargarin
.282 Butterin
3 **Cheese**
.31 Economics
.316 Finances and accounts
.317 **Expenses**
.318 **Returns**
5 Sale prices
.32 Character and composition
.321 Character and properties
.322 Constituents
.323 Grades of cheese
.325 Cheese testing
.327 Cheese analysis
.33 Cheese manufacture
.331 Cheese factories
.332 Installation, apparatus
1 **Boilers**
2 **Curd mils**
3 **Presses**
.333 Cheesemaking
1 **Curdling** **Rennet**
2 **Refining**
3 **Pressing**
4 **Heating**
8 **Putting in molds**
.335 Transport, packing, etc.
1 **Packing**
2 **Storage**

637.34 Utilization Consumption
Including by-products
.345 Milk sugar
.347 Whey butter
.35 Varieties
.351 Rennet cheese from cow's milk
.352 **Soft cheese, fresh, unripend**
.353 " " **ripend**
2 English
3 German: Limburger
4 French: Brie, Camembert, Neufchatel
5 Italian: Gorgonzola
.354 **Hard cheese**
2 English: Cheshire, Cheddar, Sage, Stilton
3 German, Swiss, etc.: Emmental, Edam
4 French: Gruyère, Gex
5 Italian: Parmesan
6
7 Other European
.355 **Rennet cheese from other than cow's milk**
1 From sheep's milk: Roquefort, Texel
2 " goat's "
3 " reindeer "
4 " buffalo "
.356 Sourmilk cheese from cow's milk
Cottage cheese, Dutch cheese, pot cheese, smear-case
.357 Sourmilk cheese from other than cow's milk

638 Useful invertebrates raised or exploited

Invertebrates whose products ar useful for food or manufactures

.1 **Bee keeping Apiculture**
For scientific or entomologic treatment see 595.799

.11 Economics Apitechny
Divided in general on lines of 631

.111 Economics

1 **Establishing apiary**
Location, site: woodland, valley, mountain, meadow. Ground, herbage, shade
Outapiaries

15 Sistems of managing
Supervision. Share sistem

2 **Laying out**
Wind breaks. Bee gardens

4 **Types of apiary**
Migratory, floating etc.

6 **Finances Accounts Bookkeeping**

7 Expenses

8 Returns Selling
Marketing

9 **Bildings Apiary**
Bee houses, bee cellars. For hives see 638.142

.112 Apitechny
When not otherwize provided for. Divided like 636.08

1 **Stocking apiary**
Selection: varieties of bees to buy. Overstocking locality

2 **Formation of stock**
Hive record-books

.12 Bees
Clas here everything on the hive bee, except scientific works on bees in general (Apidae), which ar clast in 595.799

.121 Natural history of bees
For diseases and hygiene see 638.15

1 **Organografy Descriptiv anatomy**

2 **Physiology**

3 **Embryology**

5 **Habits**
Life of the hive

52 Abode Migration
Swarming preparation and accomplishment. Clustering; scouts

53 Food
Nectar and pollen gathering. Honey and bee-bred making. Water; salt

54 Seasons
The bee year. Wintering preparations

55 Sexes
Queens. Drones. Workers

56 Breeding
Flight of queen. Care of young, etc. Brood rearing

57 Protection
The sting

6 **Products of bees**
Natural history viewpoint; for commercial see 638.16–.17
Comb, honey, wax, bee bred, bee gum

638.122 Races of hive bees *Apidae*

.123 Varieties of common honey-bee *Apis mellifica*

2 **Black bees (general)**

3 **Yellow bees (general)**

.124 European varieties

3 **Black or German bee**

5 **Italian or Ligurian bee** *Apis ligustica*

.125 Asiatic varieties

.126 African "

.1299 Other genuses of honey bee

.13 Pasturage

.131 General questions
Calendarial. Cultivation

.132 Nectar plants
When works dealing with divisions of 638.132 ar further limited by latitude, clas in 638.133

1 **Nectar: production by plant, composition, etc.**

2 **Cultivation of nectar-producing plants**

3 **By color of nectar**

32 Very light

33 Light

34 Medium

35 Dark

36 Very dark

4 **By plant type**
Trees, shrubs, vines, herbaceous

5 **Species**
Divided like 530

6 **By season**

62 Spring nectar

63 Summer "

64 Autumn "

7 **Physiograficly**
Water plants, medow, forest, rock etc.

8 **By elevation**
Mountain, sea level, etc.

9 **By country**
Divided like 940–999
For general works only; better clast, when possible, by latitude 638.133

.133 Latitudinal nectar-plant classification or distribution
Clas here works combining features coverd by 638.133 and 638.132 or 638.134–.137

2 **Tropic regions: 20 degrees N and S**

3 **Warm " 20–30 degrees**

4 **Warm temperate regions: 30–35 degrees**

5 **Temperate regions: 35–40 degrees**

6 **Cool temperate regions: 40–45 degrees**

7 **Cool regions: 45–50 degrees**

8 **Cold regions: 50 degrees —**

.134 Fruit trees and shrubs
Divided like 634

.135 Other trees and shrubs

.136 Clovers

.137 Other nectar plants

638.138 Pollen plants
- 1 **Pollen**
- 2 **By special points of view**
- 3 **Latitudinal**
  - Divide like 638.133
- 5 **Trees**
- 7 **Herbaceous pollen plants**

.139 Other pasturage
- 1 **Honey dew honey**
  - For honey dew in the sense of secretion from leavs and fruit. For afid honey, also cald honey dew, see 638.1392
- 2 **Afid honey**
- 8 **Bee-gum plants**
  - Propolis plants

.14 Bee culture
- Control of hive work

.141 General management
- 2 **Methods**
- 3 **Tools**
- 5 **Handling or controlling bees**
  - Smoking, smokers, veils, stings and remedies
- 6 **Calendarial Bee year**
  - 62 Spring work: March-May
    - Awakening period
  - 63 Summer work: May-June
    - Swarming period
  - 64 Autumn work: July-Oct.
    - Harvest period
  - 65 Winter work
    - Wintering
    - 652 Outdoor wintering
      - Protectiv equipment
    - 653 Indoor wintering
- 8 **Outapiary manipulation**
  - Moving bees

.142 Hives and parts, and their manipulation
- 2 **Fixt or single-piece hives**
  - Straw, clay, etc. Skeps
- 3 **Movable-frame hives**
  - 32 Parts of movable-frame hives
    - Supers, sections, brood frames, partitions and bee escapes
- 5 **Observation hives**
- 7 **Queen-bee-raising hives**
  - Cell cups; queen cages

.143 Hive cleaning Bee transferal
- 1 **Hive cleaning**
- 4 **Bee transferal**

.144 Comb-bilding aid Feeding
- 2 **Comb-bilding aid**
  - Guides for comb. Frame manipulation
- 3 **Comb foundation**
  - Manufacture and use
- 5 **Feeding and foods**
  - Spring and fall feeding. Watering

638.145 Bee stock control
- 3 **Crossing hive-stocks**
  - Italianizing
- 5 **Queen rearing**
  - Mating queens. Shipping queens
- 6 **Introducing queen into hive**

.146 Increase of colonies Propagation aids
- 2 **Swarming control**
  - Natural swarming control
    - 222 Primary swarm
    - 223 Secondary swarm
    - 224 Swarm hiving Swarm catchers
  - 23 Artificial swarming control
    - Queen clipping
  - 24 Prevention of swarming
  - 25 Nonswarming hives
- 5 **Artificial increase of colonies**
  - 52 Combining hives
    - Treating weak hives. Nuclei

.147 Other hive manipulations
- 1 **Pillage by bees: prevention**

.148 Harvesting
- Comb-honey removal

.15 Hindrances and protection

.151 General questions

.152 Diseases and other injuries
- Clas a special remedy with the special disease
- 1 **General questions**
  - Legislation; state inspection and control

.153 Adult diseases
- 2 **Of respiratory sistem**
  - Isle of Wight disease, acorine disease
- 3 **Of digestiv sistem**
  - Dysentery, May pest, nosema disease, bee paralisis or disappearing disease

.154 Brood diseases
- 2 **Ultramicroscopic**
  - Virus, sac brood
- 3 **Bacterial diseases Foul brood**
- 4 **Fungi and mold diseases**
  - Chalk brood, stone brood
- 6 **Chilled brood**

.155 Plant enemies
- Trapping plants: milkweed. Poisoning plants

.156 Animal enemies
- Divide like 590 but clas injurious insects in 638.157 instead of 638.15657

.157 Insect enemies
- Divide like 595.7

.158 Other injuries
- 2 **Poisoning**
  - 22 By agricultural sprays

.159 Means of protection
- General works. Clas remedy for a special ill with corresponding number

638.16 Honey and other hive products
.162 Composition of honey
1 **Properties**
Color, taste, smel
2 **Constituents**
28 Poisond honey (natural)
3 **Grading**
For varieties of honey see 638.165
5 **Testing**
7 **Analyzing**
.163 Preparing honey
2 **Bildings: honey houses**
3 **Installation Apparatus**
Separators
4 **Separating**
42 Extracting Centrifuging
43 Straining: solar extraction, etc.
44 Clarifying
45 Liquefying
Boiling to prevent candying
47 Ripening, dehydrating
5 **Preservation**
6 **Packing**
.165 Varieties of honey
2 **Marketing forms**
22 Comb honey
23 Extracted honey Centrifuged honey
24 Straind "
25 Clarified "
26 Candied "
28 By color
282 Light
283 Amber
284 Dark
8 **By food plants**
Divided like 638.13
9 **By country**
When divisions 8 and 9 both apply prefer 8
.166 Alterations of honey
2 **Natural alterations**
Candying on standing
3 **Diseases**
Mold action
4 **Impurities (natural)**
5 **Adulterations**
See also under public helth 614.311
.167 Substitutes
Artificial honeys
.169 Uses of honey
1 **In medicin**
4 **As food**
Table sirup. In cooking
7 **In manufactures**

638.17 Wax
.172 Apparatus: solar extractors
.173 Rendering
Wax presses. For refining see 665.2
.176 Adulterants
.177 Substitutes
2 **Of vegetable origin**
3 " **animal** "
.179 Uses
.19 Bees in other than productiv relations
Fertilization of flowers.
.199 Bees as nuisances
Attacking horses. Runaways. In towns
.2 Silkworms
.3 Resin- and dye-producing
.31 General questions
Divided, as far as needed, like 638.32
.32 Lac industry
.321 General questions
.322 Economics
2 **Organization for production**
3 **Government regulation and legislation**
5 **Markets Marketing**
6 **Finances Accounts**
7 Expenses
8 Returns Selling
.323 Lac insects *Coccus lacca*
Nature and habitat. For scientific or entomologic treatment see 595.752
.324 Cultivation
1 **General management**
2 **Food Feeding**
6 **Hindrances Protection**
Parasites etc
8 **Harvesting Gathering**
.326 Lac products
2 **Composition of lac**
3 **Preparation for market**
See also 667.7 Chemic tcknology
4 **Varieties of lac Marketing forms**
Stick lac, seed lac or grain lac, button lac, garnet lac, shellac, lac waste
6 **Alterations Adulterations**
8 **Uses**
.327 Dye products
Divided like 638.326

Divided like 638.32
.34 Kermes Scarlet grain *Coccus ilicis*
.35 Cochineal *Coccus cacti*
.36 Polish grains *Coccus polonicus*
.38 Murex
Rock-whelk, etc

639 Hunting, trapping, fishing, fish culture, etc.

See also 799 for sporting side

.1 Hunting, trapping, game preservs, etc.

For fur farming (fox, skunk, etc. farms) see 636.9

.2 Fishing as an occupation

.21 Fresh water fishing River fishing

.22 Sea fishing

.27 Special kinds of fish

Divided like 597, uzing 639,2799 for turtles, terrapin and other reptils

.3 Fish culture Pisciculture

.31 In fresh water Stocking rivers

.311 Ponds Fish ponds

.312 Lakes

.313 Water courses

.32 In salt water

.321 Sea

.322 Brackish water Salt ponds Lagoons

.37 Special kinds of fish

Divided like 639.27

.4 Oysters and other mollusks Shelfish

Oyster, clam, mussel, snail, pearlfishing, scallop, quohog, cockle, winkle, periwinkle

.41 Oysters

.411 Edible oysters

.412 Pearl "

.5 Crustaceans

Lobsters, crabs, crawfish, shrimps, prawns

.6 Other sea food

Sea urchin, echinus

.7 Sponges Coral

.8 Other nonedible aquatic products

Leeches etc

640 Home economics Domestic science

Public as wel as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offis and other commercial bildings, churches, theaters, railway stations, ships and other public gathering places

For economics of consumption, including standards of living, see 339; for care of library bildings see 025.9. Numbers for allied subjects in army and navy wil be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

SUMMARY

641 Food, cookery
642 Serving, entertaining
643 Shelter, house, home
644 Heat, light, ventilation
645 Furniture, furnishings Decoration
646 Clothing, toilet
647 Administration, household management
648 Sanitary precautions, cleaning
649 Home care of children, sick, and infirm

.1 Theories, utility, etc.

.2 Compends

.3 Dictionaries, cyclopedias

.4 Essays

.5 Periodicals

.6 Societies

.7 Study and teaching

Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07

.71 Schools and experiment stations

See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.426 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711–.74 may be used for keeping all phases of the subject in 640

.711 College and university courses and departments

Schools of college grade

.712 Secondary courses; high school

.713 Elementary courses; below high school

.714 Extension work

Courses for special needs: women's clubs, farmers' wives, etc.

.72 Research work: experiment stations, graduate courses

For Sage foundation see 306

73 Normal courses, teachers institutes, etc.

.74 Exhibits Museums

.9 History

641 Food Cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

.01 Gastronomy Epicurism

Plesures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.9 and 613.25

.02 Compends

.03 Dictionaries, cyclopedias

.04 Essays, addresses, lectures

.05 Periodicals

.06 Societies

.07 Study and teaching Cooking schools, classes and clubs

.08 Polygrafy

.09 History and description

Divided like 930–999. Including foods characteristic of different peoples. but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59

641.1 Food chemicly considerd Food values Tables

For methods of chemic analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2

612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury

613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods

641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

.11 Organic food constituents

.12 Proteids or nitrogenous foods

Meat, egs, nuts, legumes, etc. See also 612.398

.13 Carbohydrates or nonnitrogenous foods

Vegetables, cereals, fruits, sugar See also 612.396

.14 Fats, oils

See also 612.397

.15 Inorganic food constituents

.16 Water

.17 Salts, mineral or ash constituents

.3 Animal and vegetable foods

Clas here also works dealing both with food material and its preparation

Subdivided like 630; e.g. 641.331 Cereals, 641.34 Fruits

.31 Prices Relativ cost

Quality and other factors in buying for table

.4 Food preservation Markets

Subdivide like 664

For commercial methods see Chemic technology 664.8–.9; for transportation see 656

.5 Cookery Cook books

General recipes, specific directions, in whatever form (books, cards, etc) for preparing food

Distinction between 612.39, 613.2 and 641.5: in 641.5 clas cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) ar secondary; in 613.2 clas dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanst; in 612.39 clas scientific study of physiologic effects of various foods, regardless of benefit or injury

See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages

.52 Brekfast

.53 Luncheon, afternoon tea, supper

.54 Dinner

.55 Economic cookery

.56 Special conditions

Under limitations of age, helth, ethical or religious theories, etc.

.562 Children

.563 Invalids and aged Hospital cookery

.564 Ethical limitations

.565 Religious limitations

.566 Seasons and days: Lent, fast days, etc.

.567 Cults: Jews, Buddhists, etc.

641.57 Special situations

Adaptation to large numbers, large variety, and limitations of time, place or appliances

.572 Hotel and restaurant cooking

.573 Army and navy cooking

See also 355

.574 Shipboard cooking

Exclusiv of navy

.575 Camp and travel cooking

.576 Railway dining and buffet cars

.577 Itinerant companies; circuses, etc.

Methods of feeding large numbers en route or in temporary shelters

.578 Camp cooking

.58 Special utensils or fuels

.583 Cooking by oil

Including oil and gas together

.584 Cooking by gas

.585 Cooking by alcohol Chafing dish recipes

.586 Cooking by electricity

.587 Cooking by apparatus heated by steam or hot water

.588 Cooking by slowly applied heat

Aladdin ovens, fireless cookers

.59 Cookery of special countries

Clas here descriptions of national cookery or recipes for dishes characteristic of special countries or regions

.591 Frigid zone and cold wether

.592 Tropics and hot wether

.593–.597 Divided farther like 930–999, using these numbers preferably only for reference, shelving books under 641.5–.578

.6 Cookery; clast by material

Subdivide like 630

.7 Cookery; clast by process

.71 Baking, roasting

.72 Braising

.73 Boiling, simmering Soups

.74 Stewing

.75 Steaming

.76 Broiling, grilling

.77 Frying, sautering

.8 Composit dishes

Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper

.81

.82 Entrées Made dishes

.83 Salads

.84 Sandwiches

.85 Confectionery, candies, sweets, bonbons

.86 Ices: ice cream, sherbet, water ices, etc.

.87 Beverages Soft drinks

See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages

642 Serving Table Entertaining

See also 395 Etiquet

.1 Home and family meals

Brekfast, lunch, dinner, supper. Menus and servis
For tables of chemic constituents and calories see 641.1

.2 Refreshments

Afternoon tea, sandwiches, ices, soft drinks

.3 Camp, picnic and travel lunches

Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578

.4 Entertaining

.41 Private entertainments

.42 Small numbers

Luncheons, dinners, etc.

.43 Large numbers

Receptions, balls, garden parties, etc.

.45 Public entertainments

Banquets, dinners, clambakes, etc. For history of banquets, eating, etc. see 394.1 under Public and social customs. For dining room see 643.4

.48 Toasts Table anecdotes and conversation

See also table talk in literary miscellany

.5 Table systems for large numbers

.51 Table d'hôte

.52 American plan

.53 European plan, à la carte

.54 Club: choice of combinations

.55 Harvard Memorial hall plan

Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras

.56 Mixt plan

Table d'hôte and à la carte; table d'hôte and club

.57 Lunch counters Cafeteria

.58 School lunch rooms

Management, prices, rules for payment, suitable food, freedom of choice, etc
See also 371.716 School meals

.6 Serving Carving

Directions for setting table, changing courses, etc.

.7 Table furnishings

Linen, china, glas, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings

.8 Table decoration

Selection and effectiv arrangement of flowers, colors, lights, centerpieces etc.

643 Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value
For hygiene of soil and grounds (city, village or country) see 614.77; for sanitation, water supply and drainage see 628

.2 Plan

Requirements of house for convenient and economic administration; relativ situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detacht rooms and bildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment

.31 Plan: situation and arrangement

Relation to rest of house. Housekeeper's requirements as guide to architect. Light. For plans see 728 Residences, and 728.93 Detacht kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.331 Fireplaces, open fires: turnspit, crane, etc.

.332 Coal and wood Stoves and ranges

.333 Oil and oil stoves

.334 Gas and gas stoves

Including natural gas and acetylene

.335 Alcohol and alcohol stoves Chafing dish

.336 Electricity and electric stoves

.337 Steam heated cooking appliances Steam tables

.338 Slow and fireless cookers

Aladdin oven, Norwegian haybox. See also 641.588

.34 Machinery and laborsavers

.35 Utensils

.36 Pastry room

.37 Storeroom, larder Refrigerators

.38 Care of kitchen and accessory rooms

.39

.4 Dining room and adjuncts

.45 Serving room Butler's pantry

.47 Other pantries

.48 Cupboards

.5 Other special rooms

.52 Baths, lavatories, toilets

.57 Sun rooms, solariums: sleeping balconies, etc.

.58 Laundry

Place in house; for equipment see 648. See also 728.93 Detacht laundries

.6 Laborsavers

General: bells, telefones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair

644 Heat Light Ventilation

.1 Systems of heating

Desiderata, relativ advantages for household

For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone

Open fire as household institution; mental influence

Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 Fuels

Relativ cost; cleanliness; labor involvd, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 Systems of lighting

Fixtures, fittings, accessories. Clas here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium

See also Chemic technology 665

.311 Candles

.312 Oil

.313 Gas

.314 Acetylene

.315 Electricity

See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories

Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks

.322 Lanterns

.323 Table, banquet and piano lamps

.324 Standards

.325 Wall lamps Sconces

.326 Chandeliers Ceiling fixtures

.5 Ventilation

Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15

.6 Domestic water supply

Drinking water, hot water, heating water for domestic uses

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643

See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 Floor coverings: carpets, rugs

.2 Wall coverings

.3 Window and door furnishings

Screens, shades, awnings, draperies, wether strips

.4 General furniture

See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen and other fabrics

Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 Ornaments

Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricabrac

.6 Special rooms

For kitchen see 643.3; for laundry see 648

.61 Hall and stairs

Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room

Clas here furnishings of room used as combined reception room, library and living room

.66 Dining room

For table equipment and decoration see 642.7–.8

.67 Bedrooms and nursery

Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649.2

.68 Bathrooms Lavatories Toilets

Fittings and supplies. See also 646.7 Bathing

.69 Other rooms

Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 Outdoor space

Verandas, balconies, roof gardens

For sleeping balconies see 645.67. See also 712.7 Private grounds; 717.682 Arbors, seats, outlooks; 717.9 Garden furniture

644 Heat Light Ventilation

.1 **Systems of heating**
Desiderata, relativ advantages for household
For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone
Open fire as household institution; mental influence
Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 **Fuels**
Relativ cost; cleanliness; labor involvd, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 **Systems of lighting**
Fixtures, fittings, accessories. Clas here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium
See also Chemic technology 665

.311 Candles

.312 Oil

.313 Gas

.314 **Acetylene**

.315 Electricity
See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories
Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks

.322 **Lanterns**

.323 Table, banquet and piano lamps

.324 **Standards**

.325 Wall lamps Sconces

.326 Chandeliers Ceiling fixtures

.5 **Ventilation**
Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15

.6 Domestic water supply
Drinking water, hot water, heating water for domestic uses

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643
See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 **Floor coverings: carpets, rugs**

.2 **Wall coverings**

.3 **Window and door furnishings**
Screens, shades, awnings, draperies, wether strips

.4 **General furniture**
See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen and other fabrics
Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 **Ornaments**
Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricabrac

.6 **Special rooms**
For kitchen see 643.3; for laundry see 648

.61 Hall and stairs
Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room
Clas here furnishings of room used as combined reception room, library and living room

.66 Dining room
For table equipment and decoration see 642.7–.8

.67 Bedrooms and nursery
Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649.2

.68 Bathrooms Lavatories Toilets
Fittings and supplies. See also 646.7 Bathing

.69 Other rooms
Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 **Outdoor space**
Verandas, balconies, roof gardens
For sleeping balconies see 645.67. See also 712.7 Private grounds; 717.682 Arbors, seats, outlooks; 717.9 Garden furniture

646 Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing as related to economics of laboring classes 331.836; bleaching and dyeing 667.1–.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textils 614.37; for uniforms and liveries see occupations to which they pertain

.01 Psychology and economics of fashions
Reasons for change of fashions; expense of fashionable dressing
.02 Compends
.03 Dictionaries, cyclopedias
.04 Essays, lectures, addresses
.05 Periodicals
.06 Societies Dress reform societies
.07 Study and teaching
.08 Polygrafy
.09 Adaptation to climate or season
.091 Clothing for cold wether and frigid zones
.092 " " hot " " tropics

.1 Materials Textils and fibers
With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textils and fibers see 677 Manufacture of textils
.11 Cotton
.12 Linen Flax Hemp
.13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.
.14 Silk
.15 Lether
.16 Fur
.17 Other animal materials: fethers, hair, whalebone
.18 Other vegetable materials
.181 Rubber
.182 Paper
.183 Celluloid
.184
.185 Straw Raffia
.186 Other fibers: jute
.19 Other materials Tinsel, aluminum, asbestos, etc.

.2 Sewing Knitting Crochet
For fancywork see 746
.21 Plain sewing
Running, backstitching, hemming, overhanding, etc.
.24 Mending Darning
.26 Knitting and crochet Tatting
For knitting as a business, whether done by hand or by machine, see 677.661; for crocheting as a business see 677.662; for tatting as a business see 677.663
.27 Crochet

.3 Clothing divided by wearers
Clas here trade catalogs; e.g. Liliputian bazar catalog 646.36
See also 391 Costume; 687 Clothesmaking as a trade
.32 Clothing for men
.34 " " women
.36 " " children

646.4 Clothing divided by purpose
Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42
Subdivisions .42–.48 may be farther divided by 2 Men, 4 Women, 6 Children
.42 Underwear
.43 Outer house garments
Gowns or dresses, coats, trousers, etc.
.45 Outdoor garments
Cloaks, coats, overcoats, shawls, sweters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.
.46 Outer footwear
For hose see 646.42
.47 Garments for special purposes
Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.
.48 Accessories
Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.
For outdoor hedgear see 646.5

.5 Millinery Outdoor hedgear
See 687.4 Millinery as a business
.52 Hats, caps, etc. for men
.54 Hats and bonnets for women
.55 Other outdoor hedgear for women
Hoods, scarfs, etc.
.56 Hedgear for children
.57 For boys
.58 " girls

.6 Cleaning Drycleaning Dyeing
For laundry see 648.1

.7 Toilet Cosmetics Bathing
Care of hair, nails, teeth, etc.
For historic customs see 391.5–.6. See also hygiene, 613.4 Care of body

647 Household organization and administration

.1 Household accounts: finances, cost
See also bookkeeping 657

.2 Personnel
Intelligence offis, employment bureau
Clas here regular employees or assistants; for occasional employees see 647.29. For ethical considerations, see 173.8. See also political economy, 331 Labor and wages
.21 Manager
Superintendent, housekeeper, steward.
.22 Male employees
.23 Female "
.24 Foren "
Races and nationalities: orientals, negroes, etc.

647.25 Indoor servis
Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 Other employees
Emergency help, household registers

.3 Servis outside the house
Coachman, gardener, laborers

.6 Wages Hours Duties

.9 Cooperativ and collectiv housekeeping
Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms
See also 692.9 Bilding laws; 728 Residence architecture

.91 Tenements
See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements

.92 Apartments, flats
See also 728.2 Apartment house architecture

.93 Cooperativ housekeeping
See also 334.4 for economic aspect

.94 Hotels Clubs
See also 728.4 Clubhouse architecture; 728.5 Hotel architecture

.95 Restaurants, tea rooms, etc.
See also 642.5 Table systems for large numbers

.96 Public bildings Institutions
General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd
See also 362 Hospitals, asylums, etc.; 365.5 Prisons

.97 Cottage systems Tourist camps

648 Sanitary precautions: laundry, cleaning

.1 Laundry Washing
Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5–.6; for pests see 648.7

.11 Administration Accounts

.12 Marking

.14 Equipment
Collectiv: specifications and cost. Clas specific appliances with processes to which they belong

.15 Hand equipment

.16 Power "

.18 Supplies
Soap, starch, bluing, powders, reagents

.2 Washing
Requirements of temperature, ingredients, etc. for different materials Washing directions

.22 Washing by hand

.23 " machine

.25 Starching

.27 Bluing Tinting

648.3 Drying Driers Extractors Wringers
Confined or open air Temperature Effect on dyes of freezing, etc.

.4 Ironing

.42 By hand Sad irons
Electric and gas heated irons, etc.

.43 By machine Collar and shirt machines, fluting irons, etc.

.45 Power machinery Mangle

.5 Cleaning and sanitation of house or bilding
See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2

.52 Sweeping and dusting
Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.

.54 Washing
Porcelain, glas, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textils see 648.2

.55 Polishing
Silver, knobs, scutcheons, pipes and other metals

.6 Disinfecting
Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus

.7 Pests; traps, poisons, insectifuges

.8 Storage

649 Home care of children, sick, infirm and aged

This provides for persons requiring special adjustment of household administration: children and invalids

.1 Care of children
See also 136.7 Child study; 173.5 Duties of parents

.2 Rooms Nursery

.3 Food
See also 613.22 Diet of infants; 641.562 Cookery for children

.4 Clothing and care of body
See also 646.36 Children's clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing; 687.13 Manufacture of children's clothing

.5 Exercise Recreation
See also 613.7 Hygiene of recreation; 790 Amusements

.55 Amusements: toys, dolls, games

.6 Manners Habits
See also 173.6 Duties of children

.7

.8 Care of invalids and the infirm Sickroom

650 Communication Business

.1 Theory .2 Compends .3 Dictionaries, cyclopedias .4 Essays, addresses .5 Periodicals .6 Societies, conventions .7 Study and teaching .8 Collections .9 History

651 Offis economy

In industries and mercantil business 651 represents the nonproductiv branch, overhed charges. See 658 for productiv branch alone of manufacturing or mercantil concern

REFERENCES TO ALLIED SUBJECTS

029	Literary methods and laborsavers	648.5	Cleaning
613.6	Hygiene of employment	.6	Disinfecting
.7	" recreation and sleep	.7	Pests
628.6	Sanitation, house drainage	696	Plumbing
.8	Ventilation and heating	697	Heating and ventilation (construction)
.9	Lighting		

SUMMARY

Environment	.1	Space
	.2	Equipment
Structure	.3	Organization
Function	.4	Administration
	.5	Records
	.6	Special material
	.7	Correspondence

651.1 Offis bildings and rooms

See also 725 Public bildings (architecture)

.11 Location

Separate bildings; rooms in manufacturing bildings, in offis bildings, etc.

.12 Site

With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth

.14 Arrangement

For economy of time and space; floor space, wall space

.16 Special rooms

Directors, trustees	Typers
Manager	Lunch and conversation rooms
Accountant	Rest rooms
Dictation	Safety vaults, safes

.19 Safety

See 614.8 Protection of human life from accidents; 331.823 Safety (under Economics)

.2 Equipment

.22 Fixtures

Partitions, counters, ledges, gates, stationary shelvs

.23 Furniture

.231 Chairs, stools, settees

.232 Tables

.233 Desks

.234 Revolving cases

.235 Furniture for using books, etc.

Reference-book holders

.236 File cabinets, vertical files

See also 651.54 Storage methods

.239 Other

Hatracks, umbrella stands, clocks, bulletin boards, etc.

651.24 Furnishings and decoration

Put here only material limited to offis. For other relations see Decoration in Relativ index

.241 Floor coverings

May, if needed, be further subdivided as follows:

1 Linoleum, corticine
2 Matting
3 Carpets
4 Rugs
5 Doormats: rubber, wire etc.

.242 Wall treatment: covering or finish, pictures

.243 Window and door furnishings (shades, curtains, portières)

.26 Mekanical appliances

For general or common use or belonging to a centralized sistem; nonindividual; not limited to a special department

See also 652 Typers, duplicators, addressing machines, telautografs; 657 Protectografs, bookkeeping machines and machines for checks, handling money, etc.

.262 Oral communication: telefones (wall, desk, in booth)

Offis requirements and accessories. Number, location

See for telefone business 654.6; for telefone engineering 621.385

5 **Local sistems: interfones**

8 **Speaking tubes**

.263 Dictating machines

.264 Calculators, tabulators, statistical and adding machines

See also 510.8

If closer clasification is needed ad heds below:

1 Adding machines

11 Listing

Those devized primarily for adding, even tho capable of other processes (multiplying, dividing, subtracting) by special manipulation

12 Nonlisting

13 Tally counters

3 Approximate calculating devices

Based on logarithmic scale: slide rules, etc.

4 Exact calculating devices (mekanical)

5 Grafic or area calculators Planimeters

6 Statistical machines; e. g. sorting or tabulating: Hollerith

.265 Numbering machines

.266 Fastener, seal and other presses

For multigraf and other duplicators see 652

.267 Mail and shipping room devices

Letter and merchandise scales; folding and wrapping appliances, etc.

268 Lifts, carriers, pneumatic tubes, etc.

Local, between desks or separate rooms of same offis

See also engineering 621.86 Hoisting and conveying machinery; 621.549 for construction and 654.8 for operation and sistems of pneumatic tubes

.269 Other mekanical devices

.3 Organization

See also 347.7 Commercial law, for legal rights and restrictions; 380 Commerce and communication, for relations of corporations to state and public; 658.14 for financial organization of a business enterprize

.32 Work

Branches, departments, divisions, sections, etc.

.321 Planning department

651.34 Workers
Offis alone and those common to both offis and productiv branch. See 658.3 for those having to do with productiv branch alone. May, if desired, be further divided like 331.11. Topics coverd by 651.34 and also by 651.37 ar clast in 651.37
.37 Grades Titles and duties
.372 **Offisers: executiv, director** Hed of enterprize
.373 **Staf: department, division and section heds**
5 Understudies, deputies
.374 **Employees, routine workers**
2 Bookkeepers
3 Clerks, stenografers, typists
4 Telefone operators, etc.
6 Pages, messengers, runners
7 Janitor force, laborers
8 Apprentises, volunteers Not on payroll
.38 Pay: salaries, wages, pensions
Offis notes and discussions affecting the individual staf. For gereral discussion see economics, 331.2 Remuneration for work
If wisht, 651.38 may be subdivided like 331.2; e. g. 651.332 Wage scales; 651.3825 Extra pay: bonuses, bounties, etc.; 651.384 Profit sharing; 651.3852 Pensions (subdividing stil further like 651.37 if necessary)
.4 Administration
Offis efficiency; i. e. ratio of work accomplisht to expenditure of time, effort, material (goods, money, space)
.41 Time
.412 Disposal of time
By those above routine grades: offisers and staf
Regular engagements: monthly, weekly, daily
Public hours: for business callers, appointments; telefone vs personal interview. Private hours: interruptions only for urgency
.42 Daily hours Holidays and vacations
.421 Daily hours
1 **Records Record clock**
2 **Punctuality Tardiness**
.422 Hours for meals Lunch room
See also 651.16 Special rooms
.423 Special work
1 **Evening**
2 **Sunday**
3 **Holiday**
.424 Work by hour Overtime, extra hours
1 **Making up lost time**
2 **Payment for overtime**
3 **Effect of overstrain on employees**
4 " " " " **servis**
.425 Holidays
1 **Weekly half holiday**
2 **Legal holidays**
.426 Vacations
1 **Time of year**
2 **Length**
3 **Continuous or in instalments**
4 **Sabbatic year**

651.427 Absences for sickness or other causes
See also 651.4241 Making up lost time
.428 Attendance at meetings
1 **International**
2 **National**
3 **State**
4 **Local**
.44 Staf rules General requirements Incentivs Disciplin
.441 Conversation
.442 Personal calls or work
.443 Soliciting money, subscriptions, contributions
.444 Respect and care for property
.445 Personal appearance, dres, uniforms
.446 Curtesy Indifference
.447 Incentivs
See also 331.9 Encuragements to work offerd by government etc.
2 **Suggestion sistems**
.448 Disciplin
2 **Fines**
3 **Stoppage of wages**
For general question see 651.3812
6 **Stoppage of privileges**
.449 Staf meetings Relations between staf members
.45 Methods of increasing effectivness
Stimulation of effort
For motion study see 658.5423; for organization of work see 651.32
.451 Variety of work vs monotony
.452 Labor savers
Business view, advantage to employer; for personal view see 029.2
See also 651.26 Mekanical appliances; 651.465 Fittings, and 651.466 Supplies
.453 Methods, routines
Principles; e.g. cart not to be put before horse. For general discussion of value of methods see 029.1 Clas routine for each kind of work under its number but here may be put chief's reference file of routines, subdivided by clas number or alfabeted by subject
.455 Training of new appointees
.456 Information or 'front' desk 'Plant' messenger servis
Sistematic collection and distribution of intraplant communications and small articles. Discussion as administrativ economies. For place in organization see 651.32
.457 Mail and express routine
Receiving. Distributing: opening and dating. Collecting. Sending
For place of this section in the organization see 651.32

651.46 Material
Fittings and supplies considerd together. Use of bargain catalogs
.461 Quality
Economies in adapting to purpose; e. g. extravagance of expensiv cloth envelops for cheap printed circulars
.462 Quantity
Quantity discounts, advantage of buying in bulk insted of in packages, etc
.463 Sizes
See also 029.1 Standard sizes
.464 Use, care of stock, stock closets or room
Times (days and hours). Requisition routine
.465 Fittings
Distinguisht by capacity for repeated or long wear from supplies, which ar consumed in uzing; e. g. inkstands ar fittings; inks ar supplies
History and discussion of writing materials is in 652. Enumeration below is for offis memoranda of source of supply, prices, kind and quantity to be kept on hand, etc.
1 **Cutting:** shears, knives, pencil sharpeners, paper cutters, letter openers, punches
2 **Fastening:** clips, pins, rings, binders, mucilage bottles, etc.
3 **Writing:** inkstands, penholders, fountain pens, rubber stamps, ink pads, steel erasers, typewriter pads
4 **Drawing, mesuring, weighing:** compasses, dividers, straight-edges, rulers; tape mesures; scales, balances
5 **Calculating:** tables, charts; interest, amortization and wage tables; index numbers, etc. See also 510.8
6 **Holding:** racks, baskets, coin trays, boxes
8 **Memoranda:** ticklers, card trays, guides, spindle files, etc.
9 **Other:** brushes, pliers, sponge cups, perpetual kalendars (wall or desk) etc.
.466 Supplies
Perishing with use; see note to 651.465
2 **Fastening:** mucilage, glue, paste, adhesiv clips, rubber bands
3 **Writing:** paper, pencils, steel pens, ink, typewriter ribbons, blotters, rubber erasers, ink eradicators
7 **Labeling:** tags, gumd labels, letters and figures
8 **Memoranda:** kalendars, notebooks
9 **Other:** blanks, sponges
.47 Inventories
.472 Frequency and times
.473 Forms
.474 Perpetual, automatic

651.5 **Records Files and filing**
Matter, form, treatment
.51 Form
.512 Book
.513 Card sistem
2 **Cards**
5 **Sheets, loose leavs Looseleaf books**
For publication in looseleaf form see 655.53
8 **Strips** (clocks, adding machines, etc.)
.52 Mode of production
.522 Hand written
.523 Machine "
.525 Automatic: e. g. clock records
.53 Arrangement, classification
.531 Bases: department, subject, function, person, priority, importance
.533 Sistems
2 **Alfabetic:** persons, places or subjects in a b c order; self indexing
4 **Numeric:** 1 2 3 order; requiring index
5 **Cronologic:** by dates "
6 **Clast:** numeric, alfabetic or mixt notation, requiring index
.54 Storage methods
For file furniture see 651.236
.542 Flat on side
Cabinet, box and pigeonhole filing
For roller shelving see 022.46; for cases for maps and drawings see 022.485
.543 Rolled
Horizontal: on shelvs, wall or in drawers
On end: in closets or stalls
.545 Erect, on shelvs
Books, binders, file boxes
.546 Vertical files
.55 Accessories
For furniture see 651.23
.552 Guides
Hight. Projections: advantages; width
Material: paper, wood, metal, celluloid
Reinforcement: label holders, celluloiding
.554 Labels
.56 Permanent records
Elements determining establishment; authorization
.563 Statistics
See also 311
2 **Data**
4 **Tables**
6 **Grafs** (line, block and other charts)
.57 Temporary records and papers
Engagements, memoranda and other desk miscellany
Pigeonhole sistems Ticklers

651.6 Special material
For accounting records see 657
" stock and sales records see 658.7-.8
.62 Specifications
.63 Estimates
.64 Plans, drawings, maps
.65 Printed matter (issued by offis)
Order records and blanks. File of samples
.66 Employes records
Applications, recommendations, grading, time
.67 Letter files
See also 651.533 Arrangement
.672 By correspondents
Rules for determining 'correspondents': writer or firm, offiser or institution, etc. For numeric sistem see 651.5334
.673 By subject
.675 Removals: 'out' indexes, markers, dummies
.677 Copies of outgoing letters
In books, separate from letters
Carbond, on back of original or on separate sheet; roller copies; filed with letters
.678 Transfer files (for storage)
.7 Correspondence, reports, etc.
.71 Stationery
See also 659.133 Advertizing
.712 Paper: size, quality, weight, tint, etc.
For papermaking see 676; for history of writing material see 652
.713 Letterheds
.714 Memo heds
.715 Bil heds
.717 Postcards
.718 Envelops
.72 Blanks
For saving letterwriting; e. g. forms for extracts from minutes. For other special purposes see topic
.74 Style Business English
Conciseness, spelling, capitalization, punctuation, margins, spacing
See also 029.6
.75 Letters
.752 Definitness and accuracy; paragrafing and tabulating
.753 Opening (address) and closing; postcard style
.754 Inclosures Separate related matter
.756 Form letters, automatic (ansers by key numbers)
.757 Follow-up
.758 Interstaf notes
Directness, breves. See also 653.24 Notehand abbreviations
.76 Notises, calls for meetings
.77 Minutes, committee business
See also 651.72
.78 Reports
Organization of material; analisis
Transmission and introduction
Statistics Recommendations, etc.

652 Writing; material, typewriters, cypher
653 Abbreviations Shorthand

A fuller expansion of this subject may be had from Forest Pres, for approximately cost of making carbon copies
Form divisions .01-.09, given in Table 2 after Relativ index, may be used for both shorthand in general and for particular sistems. Material pertaining to a particular sistem or sistem group may be clast by form, yet kept together, by applying these form divisions *after* the figures of the Cutter author number Clas under general number only material independent of a particular sistem

.1 Shorthand theory Tecnic
General considerations; definitions; nomenclature
.11 Fonetic Sounds
Analisis or discussion for shorthand purposes only. General fonetic facts go under 414, 421.4 etc
.12 Grafic Signs
.121 Grafic resources or limitations independent of sistem type
Influence of handwriting usage, analisis of longhand, customary writing materials, educational conditions, etc
.123 Geometric shorthand grafic material
A geometric shorthand sistem selects for its basic material the geometricly simplest signs, then recognizes that all experience — both longhand and shorthand — proves that most or all of the signs actually written in any given word ar best written joind together, and procedes to deal with the many joining problems which such signs involv, by various ingenious devices of varying complexity and effectivness, such as the appendages or length devices of Pitmanic shorthand, or the blends or reversing or disjoining principles of Gregg
.125 Hybrid shorthand grafic material
A hybrid or script-geometric sistem represents an attempt to compromize or combine the radically different principles of geometric and script sistems. This compromize most often takes the form of attempting to impart to essentially geometric shorthand signs some of the fluency of script shorthand signs by excluding from the geometric material those features least conduciv to facil joinings, such as position (absolute position), shading, left diagonal signs, etc; a process which results in severe limitation of shorthand resources
.127 Script shorthand grafic material
A script shorthand sistem, recognizing from the first that all experience—both longhand and shorthand—proves that most or all of the signs actually written in any given word ar best written joind together, selects for its basic material the graficly simplest signs, i.e. those easiest to write and to read when joind together in actual writing
.129 Other types of grafic material
Dependent on special materials — crosruling, staves, diagrams etc
.13 Sinthetic Principles Assignment of signs to sounds
.135 Principles of outline formation
.14 Legibility Reading
.15 Brevity Writing Speed
.152 Shorthand penmanship
.157 Speed practis Training for speed
.158 Distortability of signs
.16 Simplicity Remembering
.17
.18 Applications Usefulness
For place in education see 375.653
.19 Other aspects of shorthand theory
Nonlinguistic shorthand, e.g. music shorthand

653.2 **Abbreviations Abbreviation sistems using common caracters only**

.21 Desirability Dangers Methods

.22 Omission of silent letters, vowels etc

.23 Lists of recognized abbreviations

.24 Abbreviation sistems Notehand Brief longhand

.241 Grammatic abbreviations

.25 Abbreviation sistems, primarily for ordinary typewriter

For machine shorthand and shorthand machines see 653.3

.27 Sistems for special purposes

Phillips Code for telegraf pres dispatches

May be divided by subject or purpose like main clasification

.28 Sistems divided by language like 400

.3 Machine shorthand Shorthand machines

For mechanical form and construction details of shorthand machines see 681.6

.4 Shorthand sistems clast by language

Under each language alfabeted by authors. All publications of any single shorthand sistem may be kept together by arranging them by Cutter number for original author, followd by lower case initial of surname for author of individual textbook or pamflet

.4089 Shorthand sistems or adaptations for international auxiliary languages

Divided like 408.9

.41 Polylingual shorthand sistems

.42–.499 Divided like 420–499

Most or all libraries should clas all shorthand sistem publications here rather than in .5–.7, which ar primarily for use of specialists. All publications of any single shorthand sistem may be clast by form, yet kept together, by applying the form divisions of 653.01–.09 after the figures of the Cutter number; e.g. Graham shorthand dictionary 653.42 G7603

653.5–.7 Shorthand sistems clast by structure

Most libraries should arrange shorthand publications alfabetically by name of system author under 653.4, using .5–.7 only for indexing and cros-references. A few representativ examples of classification by structure ar included in the tables. See note under 653.42

.5 Early shorthand

Not clearly differentiated as to phonetic or grafic structure. Clas systems under .6 and .7 as far as applicable, regardless of date of publication

.51 Ancient, classical and medieval shorthand

.52 Ancient shorthand

.53 Classical Greek tachigrafy

.54 Roman shorthand Tironian notes

.55 Medieval shorthand

.56 16th and 17th century shorthand

.57 18th century shorthand

Samuel Taylor, Thomas Gurney (Brachigrafy), etc.

.58 19th century shorthand (not clearly clast under .6 or .7)

Wm Harding, George Odell, etc.

.6 Nonfonetic and partly phonetic shorthand systems Syllabic systems

In languages substantially phonetic in spelling, e.g. German, Italian, Spanish, clas all shorthand with phonetic systems, according to shorthand structure

.61 Nonfonetic shorthand systems

Signs represent letters rather than sounds. Cognate consonants (p b, t d, k g, etc) ar not paird. Vowel sounds ar groupt by a b c letters or 'English values'. Alfabet is usually arranged in substantially a b c order. There ar usually supplemcntary lists of nonalfabctic arbitraries

653.64 Partly phonetic shorthand systems

.65 Systems distinguishing substantially the minimum 40 sounds, but with majority of signs not paird or groupt by sound relationships J. G. Cross, etc.

.66 Systems with majority of the 16 cognate consonants paird, but vowels groupt by a b c or 'English value' relationships

.67 Alfabetic-phonetic shorthand systems: offering in one text both an alfabetic and a phonetic stile

.68 Syllabic shorthand systems

.7 Phonetic shorthand systems

Distinctiv features for identification ar: signs represent sounds, not letters; most or all of the 16 cognate consonants ar paird; vowels ar paird by true sound relations, or groupt with difthongal sounds clearly separated from simple sounds; alfabet is arranged in some logical paird or groupt non-a b c order, most often beginning p b, t d, etc

.71 Early phonetic stenografies

Using signs neither geometrically nor grafically simple

.72 Pitmanic shorthand

A. J. Barnes, E. B. Burnz, Elias Longley, A. J. Marsh, W. W. Osgoodby, etc. Do not clas as substantially Pitmanic those systems containing les than 16 of the 21 consonant stems common to all Pitmanic systems

.722 Benn Pitman Old vowel scale systems

Clas here all shorthand publications of Phonografic Institute, Cincinnati

.723 A. J. Graham

.725 Isaac Pitman New vowel scale systems

Clas here all shorthand publications of Isaac Pitman & Sons

.728 Unorthodox Pitmanic adaptations

.73 Geometric disjoind vowel phonetic shorthand systems, excluding Pitmanic shorthand 653.72

Clas here geometric fonetic shorthand systems independent of disjoind or joind vowel distinctions

.74 Geometric joind vowel phonetic shorthand systems

Godfrey Dewey (Personal shorthand, 1922), Emile Duployé, Duran Kimball, D. P. Lindsley (Tachigrafy), J. M. Sloan, M. A. Chandler (Mrs Atherton)

.75 Hybrid (semi-geometric, script-geometric, semi-script) phonetic shorthand systems with geometrically simple signs, whether of assumed circular or elliptic origin

Clas here hybrid shorthand systems in general independent of form of principal signs. For definition see note under 653.125

.751 Systems with small joind vowel-group signs; each sign normally representing more than 2 vowel sounds

J. R. Gregg, T. S. Malone

.76 Hybrid phonetic shorthand systems with principal signs not geometrically simple, whether grafically simple, or of compound or complex form

.77 Script or grafic basis phonetic shorthand systems

F. O. Dettman

.771 Literal vowel expression systems: principal vowel expression by signs of fixt form

653.773 **Systems with consonant downstroke signs with both hed and foot modified Vowel upstrokes differentiated by length, slope or curvature**
Julius Brauns, Godfrey Dewey (Script shorthand, 1936), A W Groote O, W Melin, Karl Scheithauer, Ferdinand Schrey (1928)

.775 Symbolic vowel expression systems: principal vowel expression by relativ position of consonant signs

.776 **Systems with consonant downstrokes, dependent on a fixt or visible line of writing (absolute position)**
H. A. W. Stolze

.777 **Systems with consonant downstrokes, independent of a fixt or visible line of writing (absolute position)**
F. X. Gabelsberger, Ferdinand Schrey (1887), Stolze-Schrey (1897)

.778 **Systems with consonant signs chiefly upstrokes Vowel signs chiefly downstrokes**

.79 Phonetic shorthand systems of other types dependent on special writing materials or implements, etc

654 Telegraf Cables Signals

Business aspects. For engineering see 621.38; for codes see 652

.1 **Telegrafic instruments**

.2 **Duplex, quadruplex, multiplex telegrafs, etc.**

.3 **Printing, perforating, dial telegrafs, etc.**

.4 **Telegrafic construction; poles, wires, condits, etc.**

.5 **Cables Submarine**

.6 **Telefones**

.7 **Alarms; burglar, fire Annunciators, bels**

.8 **Speaking tubes Pneumatic tubes**

.9 **Signals** See also 534.83 Navigation signals; 623.7 Military signals

655 Printing Publishing Copyright

.1 **History of printing**

.11 Origin, invention

.111 Claims of Gutenberg, Mainz

.112 Claims of Coster, Haarlem

.12 Celebrations, anniversaries

.121 1640 .125 1940 (500th anniversary)

.122 1740

.123 1823

.124 1840

.13–.19 Printing in special countries Divided like 930–999

.2 **Type and typesetting**

.21 Type founding Tools of the art

.22 Electrotyping and stereotyping, etc. Patent blocks
For Photoelectrotyping, see 777

.23 Patent types, logotypes, etc.

.24 Faces, sizes, styles Specimen books

.25 Typesetting: composition, proofreading, distribution
Artistic composition: taste, display, job work

.27 Imposition Locking up, etc.

.28 Typesetting and distributing machines **Linotype, monotype**

655.3 **Practical printing** For Calico printing see 667.3

.31 Printing presses

.32 Press work: making ready Color printing Cuts
Cutting stock

.33 Drying: hydraulic pressing, etc.

.35 Stamps, stamping, etc.
For stencils see 652

.36 Machines: paging, numbering, etc.
See also 654.3 Printing telegrafs; 651.265 Hand numbering machines; 652 Typewriters, addressing machines

.37 Nature printing From plants, etc.

.38 Printing for blind See also 371.91 Education of blind

.4 **History of publishing and bookselling**
Divided by countries like 930–999

.5 **Publishing and bookselling**

.51 Selection of mss
For freedom of press *vs* censorship, see 323.445; Morals of press 179.1

.52 Relations to authors
Copyright payments, prices of mss bought

.53 Format
Size, paper, type, illustrations, binding

.54 Cost of manufacture
Retail prices and discounts to dealers

.55 Advertising, press copies and notices See 659.1 Advertising

.56 Retail bookselling Prices and discounts to buyers

.57 Subscription book publishing, canvassing

.58 Publishing societies

.59 Publishing by governments, institutions, etc.

.6 **Copyright Literary property**

.61 Perpetual or common law right
Including ethics of copyright

.62 Copyright in other matter than books
Music. mss, lectures, trademarks

.63 International copyright
See also 341.57 International commercial law

.64–.69 Copyright in special countries
Divided like 940–999

656 Transportation: railroading, etc.

Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, disciplin, etc.
For mechanical interrelations of track and rolling stock see 625.2
For reports, government regulation, rate schedules, etc. see 385 for railroads, 386 for canal and river and 387 for ocean and air transport

657 Bookkeeping Accounts

658 Business methods Industrial management

Clas here 'management engineering' in broadest sense. By those specializing in industrial management this number may be preferd to 621.7 for material on *management* of engineering plants, if they wish to bring into one place *all* business management. For material on management of a specific business see notes under 658.9 and 658.92–999

See also 651 Offis economy, for clerical details required by whole organization; 657 Accounting, collecting and auditing; 659.1 Advertizing

When a topic given as a detail under 658 is provided for more broadly elsewhere in the Clasification it is recommended that libraries in general uze the other number, the provision here being primarily for persons engaged in productiv business and for those specializing in the subject, for use in arranging not only books and pamflets, but also correspondence, notes, clippings etc.

REFERENCES TO ALLIED SUBJECTS

016 Bibliografy of subjects
026.65 Business libraries
150 Psychology
174.4 Business ethics
310 Statistics
325 Immigration
330 Economics
See 658.3 for special application in Management
332.1 Banks and banking
336.2 Taxation
338.1 Agricultural products
.2 Mining "
.3 Water "
.4 Manufactured "
.5 Prices
.6 Gilds
.7 Corporate industries
.8 Monopolies Trusts
.9 Industrial legislation
340 Law
347.4 Contracts
.7 Commercial law
368 Insurance
370 Education
380 Commerce Communication
510 Mathematics
530 Physics
540 Chemistry
550 Geology
600-690 Useful arts
613.6 Hygiene of employment
614.8 Protection of human life from accidents
621 Mekanical engineering
.3 Electric engineering
.7 Mils Factories Engineering works
.8 Power transmission
.86-.87 Hoisting and conveying machinery
.9 Machine tools
628.5 Industrial sanitation
654.6 Telefones
.7 Alarms Bels
.8 Speaking tubes Pneumatic tubes
.9 Signals
655.5 Publishing and bookselling
659.1 Advertizing
662.6 Fuel
693.5 Concrete construction
720 Architecture
744 Mathematic drawing
760 Engraving
770 Fotografy

SUMMARY

Origin and environment	.1	**Generalities**
	.2	Plant
Structure	.3	Industrial economics Personnel
	.4	
Functions	.5	Shop management Production
	.6	
	.7	Buying Recieving Storing Shipping
	.8	Selling
Kinds of business	.9	Specific industries

Form divisions following may, if needed, be attacht to any number, provided same combination of figures is not otherwize assigned; e.g. Cost of night work 658.3812002

658.001 Statistics
.002 Quantities and cost
.003 Contracts and specifications
.004 Designs and drawings
.005
.006
.007 Laws and regulations
.008 Patents
.009 Reports

.01 Theory, business efficiency
Team efficiency (externally directed), factors being: *a*) personal units; *b*) organization; *c*) methods; *d*) appliances
Clas here general works on business efficiency and those not falling distinctly in 651.4, 658.5 or 029
See 029 for personal (selfdirected) efficiency, factors being: *a*) physique; *b*) mentality; *c*) temperament; *d*) general education; *e*) special training; *f*) methods; *g*) appliances; *h*) personal regimen, hygiene; *i*) environment (sanitation, light, air, etc.); *j*) standards, ideals, moral and social qualifications

.02 Handbooks, forms
.03 Dictionaries, cyclopedias
.04 Essays, addresses
.05 Periodicals
.058 Year books, directories
.06 Societies, fairs, congresses, conventions
.07 Education, training, study, teaching
.08 Tables and calculations
.09 History Divided like 930-999

.1 Generalities

.11 Promotion
.112 Location
.113 Developing interest: prospectuses
.114 Form of enterprize
1 **Individual proprietorship**
2 **Partnership**
3 **Limited partnership**
4 **Stock companies**
5 **Corporations**
6 **Business trusts**

.14 Financing: raising capital
.141 Sources of capital
.142 Promoters
.143 Promoting combinations
.144 Direct sale of securities
.146 Basis of capitalization
.147 Owned capital
Stok: common preferd, no par value
.148 Borrowd capital
Short term (notes); long term (bonds, mortgages)

658.15 Financial management
.151 Control: directors, trustees Recievers
.152 Investment of capital funds
.153 Working capital
.154 Budget sistem
.155 Profit and loss
.156 Dividends: cash, stok, liquidating
.157 Surplus and undivided profits
.16 Organization Reorganization Mergers Consolidations
.162 Holding companies
.163 Affiliated companies
.165 Interlocking directorates
.166 Intercompany transaction
.167 Realization Liquidation
.168 Reorganization
.17 Expenses
.171 Taxation
See also 336.2
2 **Federal taxes**
3 **State taxes**
4 **Local taxes**
5 **Franchize and license taxes**

658.2 Plant
Suitability of bilding, whether bilt, bought or rented. For factory requirements see 621.7, also note under 658; for construction see 690; for architecture see 725.2 Business and commercial bildings; 725.4 Factories. For offis arrangement and equipment see 651.1-.2
.21 Location Site
.211 Climatic conditions
.212 Land value
.213 Labor availability
.214 Transport facilities
For transport within the plant see 658.281
.215 Availability of raw material
.216 Proximity to market
.217 Source of power
.218 Site
With reference to space, air, light, soil, slope of ground, etc. Includes occupancy of bildings used partly for other purposes
.219 Other
.22 Material
.23 Design
.231 Future expansion Provision for growth
.232 Relation to product
.234 Floor space
.235 Storage facilities
.236 Offis space
See also 651.1 Offis bildings and rooms
.237 Servis space
Rest rooms, coat rooms, cafeterias, lunch rooms, hospitals
.238 Water supply
For watersupply engineering see 628.1, for installation in bildings 696.1
.239 Sanitation
Baths, lavatories, toilet rooms
.24 Lighting
See also 628.9 for lighting in general, 621.32 electric lighting, 665.7 gas lighting
.241 Natural
.242 Artificial
.25 Heating and ventilating Air conditioning
See 628.8 for heating and ventilation in general, 697 for methods of heating and installation

658.26 Power
.261 Power generation
See also 621.19 Power plants, steam engineering; 621.31 Electric power production; 621.312 Electric power plants
.262 Power transmission
See also 621.8 Power transmission, mekanical engineering; 621.319 Transmission of electric energy
1 **Belting**
.27 Production equipment
.28 Servis equipment Laborsaving devices Safety equipment
.281 Transport Conveyer sistems Handling materials Trucks
For conveying and hoisting machinery see 621.86
1 **Hand conveyers and hoists**
2 **Power " " "**
3 **Gravity " " "**
.282 Sales equipment
.283 Safety devices and equipment
Better clast in 614.8 Protection of human life
.284 Fire protection and equipment
Better clast in 614.84 Protection of human life
1 **Water pails**
2 **Hose**
4 **Automatic**
5 **Chemic extinguishers**
.29 Other
.3 **Industrial economics Personnel**
This group provides for the economic aspects. The divisions ar the same as under 331 and only the principal ones ar given here; where desired (e.g. by those who wish to keep together all material relating to business management) these divisions may be subdivided, as in table for 331, by adding to 658.3 the figures following the decimal point in 331; e.g. Arbitration, under Economics, 331.155 under Industrial economics, 658.3155. In general libraries these topics ar better clast in 331
.31 Relations of capital to labor
.32 Remuneration for work
.33 Labor of children
.34 " " women
.35 Work under certain unfavorable conditions
.36 Pauper labor Cheap foren labor
.37 Different classes of workers Skild and unskild labor
.38 Laboring classes
.39 Other questions
.4

658.5 **Shop management Production**
.51 Planning
.511 Job analisis
1 **Instructions**
.512 Routing
.513 Skeduling
.514 Dispatching
.516 Standardization
1 **Of product**
2 **" equipment**
.52
.53 Time records Production charts
.531 Time cards
1 **Time mesuring and recording devices**
.532 Performance records
1 **Predetermind performance charts**
2 **Accomplishment charts**
.54 Rate setting
For wages see 658.32
.542 Operation studies
1 **Time study**
3 **Motion study**
5 **Production study**
.543 Time allowances
.544 Fatigue study
.55
.56 Shop organization
.561 Shop methods
.562 Inspection Quality control
.563 Tool room
For machine tools see 621.9
.565 Job assigning Instructions
.567 Waste
1 **Salvage Utilization of waste**
.57 Reserch and experiment
.571 Reserch
.572 Experimental work
.573 Testing
.575 Product design
.58 Shop maintenance
.581 Machinery maintenance
.582 Tool maintenance
.583 Emergency repairs
.59
.6

658.7 Buying Recieving Storing Shipping

.71 Department organization
.72 Buying methods
.721 Contract buying
.722 Buying direct from producer
.724 Buying thru salesmen
.725 Buying by mail
.726 Buying on open market
.727 Buying thru bids
.73 Prices
.74 Orders
.75 Follow-up
.76
.77 Recieving
.771 Checking
.772 Inspection of goods bought
2 **Methods**
.773 Invoices
.78 Storing and material control
See also 658.235 Storage facilities
.782 Classification and simbolization of stores
.783 Records Requisitions Forms
.784 Stockrooms
1 **Finisht parts**
2 **Sales stock**
.785 Storerooms
1 **Raw material**
2 **Purchast parts**
4 **By-products**
.787 Inventory
1 **Depreciation**
2 **Frequency and times**
3 **Forms**
4 **Perpetual, automatic**
.788 Shipping
1 **Organization**
2 **Routine**
21 Instructions
22 Checking methods
25 Bils of lading
26 Express forms
27 Shipping notises
4 **Packing**
41 Specifications
42 Methods
44 Receptacles Wrappers
45 Materials
47 Slips
5 **Transport and delivery**
Vouchers and reciets

658.8 Selling

.801 Psychology of salesmanship
.807 Training of salesmen
.808 Sales analisis
.81 Department organization
.811 Sales manager
1 **Sales submanager, assistant sales manager**
.813 Order clerk
.814 Billing clerk
.815 Follow-up clerk
.817 Sales records
.82 Trade promotion
.821 Methods of creating demand, of successful competition
For advertizing see 659.1
.824 Sales letters
.825 Form "
.826 House organs
.83 Marketing product
.831 Outright sales
.832 Consignment
.833 Agency
.84 Channels of sale
With goods at hand for delivery
.841 Salesrooms
.842 Markets, fairs
.843 Peddling
.844 Auctions
Selling from samples
.845 Sample rooms or exhibits
.846 Commercial travelers (shop to shop, store to store)
1 **Salary**
2 **Commissions**
3 **Expenses**
.847 Canvassers, agents (house to house)

658.85 Sales Salesmanship
.855 Display of goods or samples
.856 Exchanging Rectifying errors
.857 Approval sistem
.86 Wholesaling Jobbing
.87 Retailing
.871 Department stores
.872 Mail order houses
.873 Chain stores
.875 Commission business
.876 Brokerage
.877 Branches Agencies
.88 Collections
.881 Cash
.882 Credit
.883 Instalments
.884 Enforcement mesures
.89 Salesmanship in special business
For business having special number preferably clast in the number for that business, but may be clast here with subdivision for the business like main classification

.9 Specific industries
Business having special number (e. g. insurance business 368) is preferably clast in that number

.91 Mercantil business not having special number
May be divided like the whole classification for businesses not covered by 658.92–.999

.92–.999 Special material
May be subdivided like 620–699, e. g. drygoods stores 658.977, or for indexing purposes the method of the Institut International de Bibliographie may be adopted, i. e. the use of the colon between numbers to show the relation between the subjects, e. g. management of a drygoods store 658:677; or an 'r' (for relation) may be substituted for the colon, e. g. 658r677; or the 2d number may be written below the 1st, e. g. 658/677 With the last 3 methods, which allow for other kinds of business beside those clast in 620–699, the .9 may be omitted, since the peculiar form of the combination would bring the material into a group, which, according to I I B rules, would be arranged immediately after 658, before any of its decimal divisions

659 Other topics
Service to consumers, stile in business, etc.

.1 Advertizing

SUMMARY

659.11 General organization of advertizing
.12 Means of identification and protection
.13 Visual advertizing: writing, printing, etc.
.14 Audible "
.15 Advertizing by display and exhibition of objects
.16 " " giving premiums, special price reductions, trading stamps, etc.
.17 Methods of soliciting activity of public
.18 Advertizing by means of outside parties directly interested in object of the advertizing
.19 Other advertizing

.101 Theory
1 **General conception, nature and character**
12 Purpose, aim
Lucrativ, nonlucrativ
15 Psicology
Psicologic background: instincts, emotions, suggestion, etc. Appeals: historical; human interest and motivs (helth, food, clothing, recreation, etc.); educational, news (informational, argumentativ advertizing); sex; direct command; dramatic; etc. Negativ appeal.
For full list of form divisions see Table 2 after Relativ index

.11 General organization of advertizing
.111 General considerations
Publicity and public relations, etc. See also 659.116 Free publicity, 659.17 Methods soliciting activity of public

.112 Advertizing offices and departments
Advertizing agencies
Administration, office manager and clerical department. Accounting department: financial management, budget, advertizing appropriation; commissions; credit and collections; goodwil. Purchasing department: space buying; art, engraving and printing buying. Service department: solicitor, copy writer. Research and library department. Art department. Mecanical production and other departments and personnel. See also 651 Office economy, 657 Accounting, 658 Business methods

659.113 Advertizing campains

Preparatory work, planning, determination of advertizing field. Scope of campain; geografic area to be coverd (for advertizing in special countries use 659.109). Campains limited to specific product, including discussions involving advertizing of product in relation to advertizer and consumer. Campains for special classes of advertizers, for special classes of consumers. Cooperativ campains. Tryouts, test or experimental campains. Use of samples (see also 659.156 Demonstration by samples). Special days or weeks; follow-up; results, cost and returns or inquiries; etc.

.114 Agencies of distribution

Manufacturers (see also 670 Manufactures); wholesale houses, jobbers (see also 658.86 Wholesaling); exporters and importers (see also 382 Foren trade); commission men; brokers; retail trade: department stores, mail order houses, etc. (see also 658.87 Retailing). Consumer distribution, etc.

.115 Trips, visits, personal persuasion

.116 Free publicity

See also 659.111 Publicity and public relations, 659.17 Methods soliciting activity of public

.117 Competitors' advertizing

.118 Fraudulent "

.119 Other topics

.12 Means of identification and protection

Discussions of their use in advertizing, right of privacy, etc. Trade names and trade marks; slogans and catch phrases; package goods: containers, wrappers, labels; brands; copirights (see also 655.62 Copiright); patents (see also 608 Patents in general)

.13 Visual advertizing: writing, printing, etc.

Placing in sight of public, advertizing mediums in general

.131 General questions

.132 Advertizements in newspapers, magazines, etc.

1 **General questions**

2 **Text, copy, editing**

Contents in general

3 **Illustrations, commercial art, pictorial advertizing**

Decorativ; humorous; realistic; symbolic, suggestiv: allegoric, fantom, cartoons (see also 741.5 Cartoon drawing), colossal, lilliputian; engravings (see also 760 Engraving); photografs (see also 770 Photografy); grafs; etc. For posters see 659.134; see also 740 Drawing, esp. 741.67 Drawing for commercial advertizing

4 **Layout, arrangement, tecnical details Design**

Form and size, display, 'spreds' and inserts, background and borders (see also 745 Ornamental design), paper (see also 676 Paper manufacture), type and typografy (see also 655.24 Type faces, sizes and stiles), ink (see also 667.4 Ink manufacture), etc.

5 **Color**

Attention and illustrativ value, etc. See also 655.32 Color printing, 752 Color in painting

659.1326 **Special types of newspaper and magazine advertizements**

Want ads, coupon ads, testimonials, etc.

7 **Placing of advertizements**

In newspapers, magazines, directories and yearbooks, programs, etc.

8 **Advertizing in special kinds of newspapers and magazines**

Official or governmental; religious; financial; for foren population; tecnical: trade papers, etc.; amateur, propagandist, etc.

9 **Other topics**

.133 Direct advertizing: prospectuses, circulars, letters

Mailing lists, letterheds, mailing cards, catalogs, booklets, house organs (see also 658.826 Selling methods), handbils, broadsides, circulars, folders, inserts, inclosures in general. Methods of distribution: direct house to house distribution, sending by mail, mailing regulations. For samples and follow-up campains see 659.113

.134 Advertizing by bil posting: posters, placards, signs, etc.

Outdoor advertizing in general, bilboard regulation (see also 711.68 Bilboard regulation in City planning). Stationary bilboards, advertizing pillars or columns, painted buildings; signs, panels, guideboards, car cards, etc. Tecnical details, fastening and resistance of signs against inclemencies, etc. For electric signs see 659.136. See also 741.67 Poster drawing

.135 Moving signs

Human signs, sandwich men, advertizing clothing; advertizing vehicles: use of tires, wheels, etc.; parades, floats, etc.; boats and floating objects; aircraft, pyrotecnical methods; devices for distribution, projection or forming on vehicles, automatic distributors

.136 Luminous advertizing, electric signs, etc.

Permanent luminous signs in general. Signs illuminated by lamps alternately going off and on; signs projected on screens, ground, clouds, etc. (see also 659.138 Devices for impressing advertizements on pavements); movable blinds (abats-jour) and screens; transparent luminous signs; transparent mirrors and use of other optical light effects; gas light signs; neon signs, etc.; luminescent advertizing; etc.

.137 Other optical advertizing devices

Advertizing on objects of merchandize (match boxes, furniture, etc.) with or without movable parts. Advertizing specialties: calendars, blotters, photografs, etc. Menu holders and similar supports: for price schedules, tarifs, post-cards, programs, etc. Apparatus for presenting signs or advertizements on revolving disks, leavs, tablets, etc. Devices for displaying advertizements, etc. on strips, on endless bands; on cylinders or drums with or without movable parts; on prisms, panels, blinds, etc. turnable or displayd singly; on advertizing toys and novelties, badges, flowers, small flags, etc.; on looking apparatus, etc. Pennants, banners, streamers etc. Theater curtains, etc.

659.138 Special optical devices for attracting attention
Decoration, plays of light and transparence, special construction of mecanically moved letters or figures. Advertizing devices operating by opening or closing doors and windows. Devices for impressing advertizements on pavement (see also 659.136 Signs projected on screens, ground, etc.). Advertizement writing devices, advertizing posters automatically writing the advertizements. Airplane skiwriting. Imitations, shows: lifelike images for advertizing; moving images, moving faces; living models; entertainment publicity, dramatic advertizing, moving pictures, plays (see also 659.14 Lectures, etc.)

.139 Other topics

.14 Audible advertizing
Direct oral advertizing, spoken advertizements: mountebanks, barkers; town or public criers; lectures. Indirect oral advertizing: phonografs, radio broadcasting. Audible advertizing other than by word. Combined visual and audible advertizing (see also 659.138 Entertainment publicity)

.15 Advertizing by display and exhibition of objects

.151 General questions
Demonstration of processes and apparatus in general

.152 Fairs, exhibits, conventions, etc.
Automobile shows, industrial shows, etc.

.153 Store demonstrations

.154 Advertizing stunts

.155 Traveling displays

.156 Samples and sampling
See also 659.113 Samples in advertizing campains

.157 Devices and systems of display
Window and store displays. Dealers signs and helps. Show windows, show cases, exhibit cabinets; devices for sale and distribution of goods without previous introduction of money; small vending shops; sample cases, boxes and cards; packings with advertizing. Apparatus for exhibiting cards, pictures, etc. Supports for articles of jewelry, artificial teeth, etc. Devices for displaying pictures, post-cards, tapestry, etc. Label supports and clasps and label holding pins: fastend to objects or fabrics, removable or separate, display labels

.158 Canvasing
For distribution of advertizing by trips and personal persuasion see 659.115

.159 Other

.16 Advertizing by giving premiums, special price reductions, trading stamps, etc.
Various methods tending to giv advantage to public

.17 Methods soliciting activity of public
Advertizing competitions, lotteries, prize contests, etc. See also 659.111 Publicity and public relations, 659.116 Free publicity

.18 Advertizing by means of outside parties directly interested in object of the advertizing

.19 Other advertizing

660 Chemic technology

.1 .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 .9 History of chemic technology

661 Chemicals

.1 **Chemic elements** Divided like 546

.2 **Acids: sulfuric, nitric, etc.**

.3 **Alkalies: potash, soda, ammonia**

.4 **Salts** For common salt see 664.4

.5 Ammonia salts

.6 Sulfates and nitrates

.7 Cyanids

662 Pyrotechnics Explosivs, fuels etc.

.1 **Pyrotechnics**

.2 **Explosivs** See 622.23 Blasting; 623.4 Ordnance

.3 Gunpowder

.4 Fuses, percussion caps

.5 **Matches**

.6 **Fuel: coal, peat, natural gas, etc.**

.7 Charcoal, coke See also 644.22 Domestic economy 669.8 Metallurgy

.8 Artificial fuel See also 644.2 Domestic economy 669.8 Metallurgy

663 Beverages
See also 178 Temperance 614.34 Adulterations For milk see 637.1

.1 **Fermented**

.2 Wine

.3 Brewd

.4 Beer

.5 **Distild**

.6 **Artificial mineral waters: soda water**

.7

.8 **Mixing drinks** **Barkeepers manuals**

.9 **Chocolate, coco** **Commercial mixing of teas, coffees, etc.**

664 Foods
For Adulterations see 614.31 Public helth. See also 641 Domestic economy

.1 **Sugar, molasses, glucose, etc.**

.2 **Starch, tapioca, sago, etc.**

.3 **Artificial butter, oleomargarin** **Lard, compound lard**
For butter, milk, and cheese see 637 Dairy

.4 **Salt**

.5 **Spices** **Condiments**

.6 **Yeast** **Baking powder**
For bred see 641.631 Cookery

.7

.8 **Methods of preservation: fruits and vegetables**

.9 Preservation of meat and fish

665 Oils Gases
.1 **Candles Torches**
.2 **Animal oils and fats** See also 664.3 Foods
.3 **Vegetable oils and fats**
.4 **Mineral oils: paraffin, ozocerite, asphaltum**
.5 Petroleum, kerosene
.6 **Lamps** See also 644.32 Domestic economy
.7 **Illuminating gases Calcium light**
.8 **Other gases**
.9

666 Keramics Glas etc.
.1 **Glas** See also 748 Staind glas
.2 **Enamel**
.3 **Keramics** See also 738 Pottery, porcelain
.4 Clay See also 553.61 Economic geology
.5 Porcelain
.6 Stoneware, earthenware, pottery
.7 **Bricks Tiles** See also 691.4 Bilding materials; 695.3 Roofing
.8 **Artificial stone** See also 691.3 Bilding materials
.9 **Cements Limes Mortars** See also 691.5 Bilding materials

667 Bleaching, dyeing, etc.
.1 **Bleaching**
.2 **Dyeing Artificial colors Silk and wool dyeing**
.3 Cotton dyeing and calico printing
.4 **Inks: writing inks, indelible inks**
.5 Printing inks
.6 **Paints and pigments** See also 698.1 House painting; 751 Fine arts
.7 **Varnishes Polish Lacker** See also 698.3 Varnishing
.8 **Japan Blacking**
.9

668 Other organic chemic industries
.1 **Soap**
.2 **Glycerin**
.3 **Glue**
.4 **Gums and resins**
.5 **Essences, perfumery, essential oils and ethers, etc.**
See also 646.7 Toilet
.6 **Fertilizers** See also 631.8 Agriculture
.7 **Distillation: coal tar, etc.**

669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 671

.1 **Iron and steel**
.2 **Gold and silver**
.3 **Copper**
.4 **Led**
.5 **Zinc**
.6 **Tin**
.7 **Mercury and other metals**
.8 **Fuels and furnaces Slags**
.9 **Assaying**

670 Manufactures

Specific topics go where of most interest. These heds ar for the *general* subject of metal, wood, etc. manufactures, and for such specific manufactures as ar not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g. a steam engin is certainly made of metal, but its manufacture should go under 621.1, not 672. The caracter of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library wil incline to the special subject, as a more minute classification is thus obtaind, and references under 670 anser inquiries for all the library has on the subject of bras or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses ar various the general hed is better; e. g. bels ar for scores of distinct uses, but their manufacture is a unit; but all churns ar for the dairy

671 Articles made of metals
672 **Of iron and steel; stoves, cutlery, etc.**
673 **Of copper and of bras, bronze and other industrial copper alloys**
Bels etc. See also 739

674 Lumber and articles made of wood
For cabinet making see 684. For lumbering as a feature of forestry see 634.9

675 Lether and fur and articles made of them
For saddlery, shoemaking, gloves, belts, trunks etc. see 685

676 Paper and articles made of paper

677 Textil manufactures

SUMMARY

.028 General tecnic
.1–.5 Industries based on special fibers
.1–.4 Spinning mil industries
.1 Vegetable fibers in general
Flax and similar fibers: hemp, jute, etc.
.2 Cotton and similar fibers
.3 Animal fibers in general
Wool and similar fibers
.4 Silk " " " : rayon, etc.
.5 Industries of other fibers
.6 Special fabrics
.7 Cordage, trimmings, etc.
.8 Auxiliary industries

.01–.09 For full list of form divisions see Table 2 following relativ index

.028 Teenic
For general discussions only. Teenic applied to manufactures from special fibers should be clast in 677.1–.5. .028 and subdivisions may be used as form divisions applicable thruout 677 as needed where other provision has not been made

2 Processes

21 Preliminary processes, preparation of fibers
Cleaning, seed removal, rippling, ginning; separation of fibers, retting, breaking, scutching; oiling, etc.

22 Spinning, twisting, doubling, cabling, etc.
Reeling, spooling, throwing; winding in skeins or balls or on bobbins; boxing, etc.

23 Classifying and numbering yarns and threds

24 Weaving and braiding
Spooling, warping, sizing or dressing, finishing, calendering, singeing, etc.

27 Chemic processes: bleaching, dyeing, etc. See also 667 Chemic teenology

3 Raw materials 4 Secondary materials: Chemicals, etc.

5 Machinery Apparatus Tools
Corresponding to processes indicated under 677.0282

51 For preliminary processes and preparing fibers
Pickers, beaters, boilers, dryers, breakers, combs, cards, willows, drawing frames, hackles, oilers, etc.

52 For spinning, twisting, doubling, cabling, etc.
Mules, jennies, throstle frames, etc.

53 For classifying and numbering

54 For weaving and braiding
Winders, warpers, dressers; looms, finishing machines, etc.

57 For chemic processes

677.0286 Textil products

61 Of spinning: warp and weft (filling) yarns
Carded, combd, thrown, etc. for weaving

62 Of twisting, doubling and cabling
Double yarn, sewing thred in skeins, balls, boxes, on bobbins, etc. for knitting, embroidery, etc.

64 Of weaving and braiding See also Special fabrics 677.6

67 " chemic processes

7 Tests of yarns, threds and fabrics
For accepting or rejecting

71 Chemic
72 Microscopic
73 Resistance
74 For moisture, etc.

8 Low grade products, byproducts, wastes

9 Substitutes, etc.

677.1–.5 **Industries based on special fibers**

.1–.4 **Spinning mil industries**

.1 **Textil fibers of vegetable origin, q. v. in 633.5**
Flax and similar fibers. Spinning mil industries only. For other textil uses see 677.54 Vegetable fibers not spun, 677.71 Cordage

May be divided like 677.028

.11 Flax industry
May be divided like 677.028, e.g. 677.1152 Spinning spreders and cutters, 677.116 Flax industry products: linen, etc.

.12 Hemp industry .13 Jute industry

.14 Sunn hemp and other hemplike and jutelike fibers, q.v. in 633.56
Spinning mil industries using various fibers from lignified sclerenchima of dicotiledonous stems, e.g. urena, roselle, etc. fibers

.15 Ramie or China gras and similar fibers
Spinning mil industries using various fibers from nonlignified sclerenchima of dicotiledonous stems, e.g. yercum, bauhinia, etc. fibers

.16 Leaf fibers, q.v. in 633.57–.58

.17 Stem fibers in general

.18 Fruit " " " , e.g. coir or coconut fibers, etc.

.19 Other types of vegetable fibers
Bark, root, peat, moss, seaweed, etc. fibers.

.2 **Cotton and similar fibers Vegetable hairs**

May be divided like 677.028

.21 True cotton industry
May be divided like 677.028, e.g. 677.218 Low grade cotton products and waste: cotton wadding, carded cotton, etc.

.22 Seed hairs in general
Typha wool industry, etc.

.23 Fruit hairs: kapok, silk cotton, etc.

677.3 Textil fibers of animal origin

Wool and similar fibers. Spinning mil industries only. For other textil uses see 677.56 Animal fibers not spun, 677.63 Felting and hat making

May be divided like 677.028

.31 Sheep wool industry
May be divided like 677.028, e.g. 677.313 Raw materials: sheep hair, flocks, flos, etc.

.32 Llama wool industry
Alpaca, guanaco, vicuña, etc.

.33 Goat hair industry
Cashmere, mohair, etc.

.34 Camel hair industry

.35 Rabbit " "

.36 Reworkt wool industry

.363 Reworkt wool yarn, mungo or felted rags, shoddy or unfelted rags

.37 Vegetable wool industry

.371 Pine wool .372 Peat fiber wool
May be divided like 677.028, e.g. 677.37121 Preliminary processes: pine needle distilation, 677.3718 Low grade products: pine needle essence, etc.

.38 Spinning industries using various animal hairs, fur, bristles, etc.
Dog, cat, horse, kangaroo, etc. hair

.39 Spinning industries using other types of fibers of animal origin
Fibers from fethers, internal organs, etc.

.4 Silk and similar fibers

Spinning industries only. For other textil uses see 677.6 Industries of special fabrics

May be divided like 677.028

.41 Mulberry silkworm (Bombyx) industry
May be divided like 677.028, e.g. 677.4161 Organzine, tram and other silk spinning products, 677.418 Low grade products: silk wadding, flos, etc.

.42 Other bombicid silk industries
Corah, pongee, tussah (tussor) silk industries. Wild silk in general

.423 Raw materials
Silk from oak silk worms, Japanese (yamamai); Chinese (pernyi), Indian (mylitta) silk, etc.

.43 Silk from nonbombicid caterpillars

.433 Raw materials
Silk from caterpillars feeding on the ailanthus, castor oil plant, etc.

.44 Silk waste or spun silk industries

.446 Bourrette, schappe and other silk waste fabrics

.45 Other natural silk fiber industries
.452 & .453 may be divided like 677.028

.452 Silks from insects without cocoons: silk spiders, etc.

.453 Molluscous silks: byssus silk, etc.

677.46 Artificial or synthetic silk industries
Cellulose silk or rayon

.461 Nitrocellulose fibers: collodion silk

.462 Cupramonia "

.463 Viscose fibers: cellulose dissolvd in carbon disulfid

.464 Cellulose acetate fibers

.465 Other cellulose esters
Formate, ethil cellulose, etc.

.468 Artificial silk from various cellulose solutions
With concentrated alkalin hydroxid or zinc chlorid base; with solutions of various concentrated salts; acid solutions, etc.

.47 Non-cellulose synthetic fibers

.472 From organic albuminoid or protein sources
Casein, fish, zein (maiz), soybean, etc.

.473 From inorganic protein sources
Polimeric amids, coal, etc. Nylon

.474 From gums or resins

.5 Industries of other fibers

Special fabrics or network obtaind by braiding or similar operations rather than by spinning and weaving proper, including general processes of corresponding industries, e.g. basketry, sparterie, etc. See 677.6 for fabrics made by other special processes but using ordinary textil fibers, e.g. felts, tapestries, laces, etc., 677.7 for cable and rope making and fancy trimmings

.51 Natural mineral fibers
Asbestos, amianthus; incombustible fabrics, etc.

.52 Artificial mineral fibers
Glas filaments, woven glas; mineral wool, slag wool, etc.

.53 Metal yarns, fabrics and nets
Perforated metal sheets and expanded metal; fabrics from gold, silver, etc; metal cloths and strainers; wire gratings; stampt or cut metal network, etc.

.54 Vegetable fibers not spun: braiding and matting processes

.541 Straw and similar materials
Thatch, straw mats, etc.

.542 Sparterie: sparto (alfa), pandanus, lindenbast, etc.

.543 Osier or willow with industry Basketry

544 Rushes industry: rush matting, chair caning, etc.

677.545 Bamboo and rattan industry: matting, etc.
.546 Fibers obtaind as fine chips or shavings
Rice straw shavings, wood wool or pine chips, etc.
.547 Leaf fibers for braiding
.548 Fruit " " "
.549 Other types of vegetable fibers for braiding
.55 Elastic fibers and fabrics
Rubber weaving, etc. For rubber manufactures in general see 678
.56 Animal fibers not spun
Used for braiding and similar processes. Fabrics from hair or bristles, haircloth; fethers, intestinal fibers (see also 677.74 Catgut), whalebone, etc.
.57 Industries using paper fibers, strips, etc.
.6 Industries of mixt or special fabrics
Using various fibers in combination and manufactured by special processes. Manufacturing industries using the elementary yarns or cloths mentiond in the preceding groups
.61 Mixtures Composit fabrics
Plain; figured: damaskt, brocaded, flowerd; upholstery fabrics; cloth of gold; reversible; double warp and pile fabrics: rep, plush, velvet; imitations of fur, etc.
.62 Fabrics woven, fuld, felted or napt
Flannels, swanskins, blankets, lap robes, counterpanes, coverlets, etc.
.63 Felts proper Nonwoven felts
Felt carpets, felt hatmaking, etc. For hatmaking in general see 687.4
.64 Tapestry and carpet industry
.643 Woven carpet
Carpet industry in general. For felt carpets see 677.63
.65 Openwork fabrics: Gauz, grenadine, etc.
.653 Lace industry .655 Guipure lace
Point and embroidery lace — For upholstery lace see 677.76 Trimmings
.654 Tulle industry
.66 Mesht goods with chain and knotted stitches
Industries of knitting, crocheting (crochet lace), tatting, netting (game bags, fishnets), etc. For these processes in the home see 646.26–.27
.67 Industries weaving fabrics in tubular or conic form: seamless sacks, etc.
.68 Waxt or glazed fabrics
Gumd gauz, oilcloth, moleskin, glazed felt, linoleum, kamptulicon, oilsilk, etc.

677.7 Cordage, trimmings, etc.
Industries using textil and metal fibers for manufacturing products other than cloth, matting, openwork and mesht fabrics, etc.
.71 Vegetable and animal cordage; hemp, flax, silk, wool, etc.
.72 Metal cordage and cables Dynamic cables
For mecanical transmission of power, etc.
.73 Conducting wires and cables
Telefone, telegraf, submarine, etc. cables
.74 Catgut and similar cords
Silk, silverd, etc. cords for music instruments, knife grinders, rackets, whips, hats, saddle bows, clocks, etc.
.75 Cords, braids, lacings, ribbons, etc. in general
.76 Trimmings Passementerie
Galloons, fringes, beading, etc. for furniture, carriages, uniforms, etc.
.77 Embroidery industry in general
.8 Auxiliary industries
Manufacturing cards for Jacquard looms, etc.

678 Rubber and similar products and articles made of them

679 Celluloid and other

680 Mechanic trades Amateur manuals

For bilding trades see 690

681 Fine mechanism Instruments of precision Watch and clock making

Catalogs of miscellaneous instruments. Clas special instruments with their subjects

.1 **Apparatus with wheels or motor mekanisms**

.11 Horology Watch and clock making

See also in astronomy 529.78

.111 Clock sistems

1 **Ancient clocks**

Sundials, water clocks, clepsydras

.112 Constitutent parts of clocks

Making and repairing. Tools

1 **Movements: with weights, with springs Barrels**

2 **Wheels Gears**

Hour wheels, minute wheels

3 **Striking devices: bels, carillons**

4 **Escapements Balance wheels Springs Pendulums Regulating devices**

5 **Bearings: friction and lubrication**

7 **Adjusting Regulating**

8 **Repairing**

9 **Watchmakers implements**

.113 Clocks

See also 681.115 Pneumatic clocks, 681.116 Electric clocks

1 **House clocks**

For clocks considerd as artistic furniture see 749

2 **Astronomic clocks**

3 **Public " Tower clocks**

Strassburg clock

4 **Musical clocks**

5 **Drawing room clocks**

6 **Travel clocks**

7 **Alarm "**

.114 Watches Chronometers

For watches considerd from viewpoint of artistic watchcases see 739

1 **Watches for ordinary use**

2 **" with second hands**

3 **Repeater watches**

4 **Chronometers for ordinary use**

5 **Marine chronometers**

.115 Pneumatic clocks

1 **Motor clocks Canalization**

2 **Receiving clocks: public or private**

.116 Electric clocks Standard clock sistems

1 **Distributing regulators**

2 **Sistem for transmitting time at a distance**

3 **Sistems of direct transmission**

Minute receivers

681.117 Curiosities of clockmaking

1 **Mysterious clocks**

2 **" watches**

3 **Automaton clocks**

.118 Time reckoners

Chronografs and other apparatus for mesuring time

1 **Reckoners by seconds or fractions of seconds**

Stop watches

2 **Tower reckoners**

3 **Metronomes**

4 **Chronografic reckoners Mesurers of velocity**

5 **Reckoners of interruption**

6 **Alarm reckoners**

7 **Time clocks**

.119 Other horology apparatus

1 **Portable sundials**

2 **Hour glasses**

.12 Reckoners of consumption

.121 Water meters

.122 Gas "

.124 Vehicle reckoners Taximeters

.13 Automatic distributers or producers of various effects

.131 Distributers of objects prepared in advance

.132 Distributers of objects transformd by the apparatus itself

Apparatus for printing metal labels

.133 Apparatus for producing images and fotografs Projection lanterns

.134 Moving picture apparatus

.135 Sound producers Automatic fonografs

See also 681.8432 Fonografs; construction

.14 Calculating, counting and registering machines

Tho not all wheel machines, there may under this hed be brought together calculating machines of all types. Manufacture of these machines may be clast here or under numbers indicating their use

.141 Arithmetic machines Adding machines Arithmometers

See also in offis economy 651.2641

.142 Machines for solving equations

See also Equations in Relativ index

.143 Logarithmic instruments

Calculativ rulers and circles. See also Mathematics 510.8

.144 Abacus and apparatus for grafic tables

See also Arithmetic 511.2 and Offis economy 651.2645

.145 Machines for money counting Automatic safes

681.15 Toys and apparatus with automatic mekanical movements
See also 681.82 Automatic musical instruments
.151 Automatons imitating human actions
.152 Automatic animals
.153 Complex toys imitating actions of persons and animals
.154 Automatic machines and apparatus moving on the ground
Carriages, wagons
.155 Automatic animals and apparatus moving in water
Fish; boats
.156 Automatic animals and apparatus moving in the air
Flying birds; balloons

.2 Scientific instruments of wood or metal for mesurements and observations
Manufacture of the various instruments uzed in pure and applied science, to observ, ascertain, mesure or register, may be clast with the use of those instruments in 500–600 or (except those provided for under 631.3–.7) may be brought together here, the special kind of instrument being indicated by clas number for its use, following a colon; e. g. 681.2:534 Manufacture of acoustic apparatus, 681.2:617 Manufacture of surgical instruments, 681.2:631.3 Manufacture of farm machinery; or .25–.26 may be divided like 500–600

.3 Apparatus for glas blowing
Glasblowing or enameling with blowpipe or lamp. See also 666.1–.2
Special instruments may be clast under number for their use or may be brought together here as noted under 681.2

.4 Optical instruments Optician's trade
See also 522 Practical astronomy, 535.8 Applications of optics
As noted under 681.2–.3, manufacture of instruments may be clast under number for their use or may be brought together here and subdivided by number for use, e. g. 681.45222 Manufacture of telescopes
.41 Various kinds of optic instruments
.411 Spectacles Eye glasses
.412 Instruments for distance observation
Opera glasses; spy glasses
.413 Magnifying glasses
Reading glasses; microscopes
.414 Spectroscopes
.415 Photometers
.416 Polarimeters
.42 Optic glasses
Oculist's glasses; plate glas; mirrors; prisms; lenses
.43 Frames and metal parts
Optic screw
.44 Setting and adjusting

.45–.47 divided like 500–700

681.6 Machines for writing, shorthand, composing, printing, numbering, stamping, effacing
For description and use of these machines see the following numbers, under which the manufacture also may be clast if preferd: 652 Writing machines, typers; 653 Shorthand; 655.2–.3 Printing; 667.3 Calico printing; 760 Engraving; 775 Fotolithografy
.61 Writing, shorthand and composing machines
.611 General questions
1 **Universal keyboard Ideal keyboard Manipulators**
2 **Mekanical transmission**
Comprest air transmission; electric transmission
3 **Inking by ribbon; by pad**
.612 Ordinary typewriters
With hidden writing; with visible writing
1 **Machines with keyboards and separate levers: hidden writing**
11 With complete keyboard and single letter on a key
12 " combined " " 2 letters " " "
13 " " " " 3 " " " "
2 **Machines with keyboards and separate levers: visible writing**
Subdivided like 681.6121
3 **Machines with keyboards and type wheels, segments or barrels**
4 **Hand operated machines**
41 With type on cylinders
42 " " " disks
43 " " " rule
44 " " " frame
5 **Other kinds of writing machines with mekanical movemen**
6 **Machines with transmission by comprest air**
7 " " " " **electricity**
8 **Accessories of ordinary writing machines**
Tables, etc.
.613 Machines for special kinds of writing
1 **For embost caracters**
Writing machines for blind. See also 655.38 Printing for blind
2 **For conventional caracters**
Perforating machines
3 **For shorthand**
4 " **distance writing**
Telescriptor
.614 Writing and composing machines for printing

681.62 Copying and printing presses
.621 Hand copying and printing presses
1 **Copying presses**
2 **Printing "**
.622 Hand typografic presses
Old wooden presses; iron presses
.623 Typografic presses with pedals
.624 Mekanical typografic presses
1 **For printing in black**
2 **" " " colors**
.625 Special presses for various kinds of printing
1 **For copper plate printing**
2 **" lithografic and zincografic printing**
3 **" fotografic printing**
4 **" chromografic "**
5 **" printing wall paper**
6 **" " fabrics**
See also 667.3 Calico printing
.626 Machines for stamping, numbering, dating, effacing
1 **For stamping and labeling**
Moist stamps; dry stamps. Composing sticks. Inkpads. Inkpad boxes
2 **Numbering machines and stamps**
Automatic numberers. Frame for numbering
3 **Dating machines**
Date stamps: movable, perpetual
4 **Effacing and perforating machines**
.63 Apparatus for telecommunication
Machines and apparatus for transmitting at a distance signals, writing or words
See also in engineering 621.38 Electric communication; in communication 654 Telegraf, cables, signals
.631 For short distance transmission of various acoustic or mekanical signals
See also in engineering 621.386 Telefone instruments, in offis economy 651.262 Oral communication
1 **By comprest air transmission**
See also in engineering 621.53 Comprest air transmission
2 **By comprest water transmission**
.632 For fotografic transmission
.7 Machines for manual labor and involving instruments of precision
Special machines may be clast under number for their use or may be brought together here and distinguisht
as noted under 681.2

681.8 Music instruments
Manufacture of music instruments is preferably clast in 781.91 Music instruments in general, 786–789 special instruments, but may be kept here, classing under 681.81 the ordinary musical instruments, and under 681.82–.84 some of the less important and the accessory instruments
.81 Ordinary music instruments
See note under 681.8. If manufacture of ordinary instruments is clast here, this number may be subdivided like 780, e. g. 681.8171 Manufacture of violin
.82 Automatic and independent instruments
.821 Street organ
.822 Music boxes
.823 Mekanical pianos and organs
.824 Orchestrions
.825 Song-birds and instruments imitating song and speech
.83 Semi-automatic adapted to ordinary instruments
.831 To keyboard instruments
Melotropes, pianistas, eolians, etc.
.832 To stringd instruments
.833 " wind "
.834 " percussion "
.84 Instruments registering and reproducing musical compositions and voices
.841 Merely registering movements of piano keys
Melografs
.842 Merely registering sounds
.843 Registering and reproducing sounds
1 **Talking machines**
2 **Phonografs Gramofones**
See also 681.135 Automatic phonografs
21 Cylinder phonografs
22 Disk "

682 Blacksmithing
.1 Horseshoeing
See also Zootechny, 636.0834 Shoeing
683 Lock and gun making
684 Carriage and cabinet making Furniture and furnishings
Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish. Highway vehicles for separate tractors, either animal or motor. For motor vehicles see 629.2

685 Saddlery Belt-, shoe-, glove-making, etc. Travel equipment

Saddles and harnesses, shoes, and travel and camp equipment. See also 675 Lether industry

.1 Saddlery Harness making
.2 Beltmaking
.3 Shoemaking Wooden-shoe trade
.31 Shoemaking properly so-cald
.311 Ancient shoes Theater shoes
.312 Ordinary modern shoes of lether and fabric
.314 Various special shoes
Slippers, gaiters etc.
.32 Wooden-shoe making
.36 Footwear and special apparatus for moving on ice or snow
.361 Ordinary skates
.362 Roller skates
.363 Snow shoes Skis
.37 Special apparatus for moving on the ground
Stilts
.38 Walking apparatus for infirm and wounded
See also 617.92 Orthopedic appliances
.381 Crutches
.382 Wooden legs
.4 Gloves Mittens
.41 Gloves of common lethers
.42 Long lether gloves Evening gloves Ladies fancy gloves, etc.
.43 Furred and lined lether gloves
.431 Fur gloves
.432 " mittens
.433 Stuft gloves Boxing gloves
.434 Armd gloves Gantlets
.44 Gloves of woven textils, cut and sewed Ribd gloves of silk or wool
.46 Gloves entirely woven Knit gloves of cotton, flax, wool, silk etc. Filet silk gloves
.47 Mittens Mitts
.48 Glove fastenings

685.5 Travel and camp equipment
.51 Travel articles of lether and fabrics
.511 Trunks
Of wood and fabric, of lether, of wicker and lether
.512 Valises Portmanteaus
.513 Overnight bags
.514 Saddle bags Game bags Cartridge boxes
.516 Canteens
.517 Hampers for excursions and picnics
.53 Camping articles
.531 Tents and knock-down huts
.532 Temporary shelters
.533 Folding beds
.534 Hammocks Hanging seats
.535 Portable seats Folding seats
.536 Other tent furnishings
Tables; stands
.537 Seats with canopies
.6 Articles for public or society games

686 Bookbinding

687 Clothing industries

See also 685.2-.4

.1 Redymade clothing Sewing Tailoring
Outerwear
.11 Men's clothing
.12 Women's "
.13 Children's "
.15 Uniforms and special garments
Civil; military; ceremonial; religious
.2 Underwear
.3 Hosiery
See also manufactures 677.661 Knitgoods
.4 Hats
.8 Auxiliary industries
Fasteners; buttons, hooks, eyes, snaps, etc.

688

689 Other trades

690 Bilding

For Architectural construction, see 721

.1 Theories of construction .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions .7 Education, study, training, apprentisship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions .9 History of bilding construction

691 Materials Preservativ processes

Waterproofing See also 620.1 Strength of materials

.1 Wood Creosoting, etc.
.2 Natural stone Paraffining, etc.
.3 Artificial stone Concrete
.4 Bricks Tiles Other keramic products
.5 Lime Cement Plaster
.6 Glas
.7 Iron Steel Antirust processes
.8 Other metals
.9 Other materials

692 Plans Specifications, etc.

.1 General drawings
.2 Detail drawings
.3 Specifications
.4 Contracts Agreements Bids Advertisements
.5 Estimates Quantities Costs
.6 Superintendence
.7 Supervision of accounts
.8 Professional servises Fees Commissions
.9 Bilding laws Liabilities of architects, owners, and contractors

693 Masonry Plastering Fireproofing, soundproofing, etc.

.1 Stone construction
.11 Bonds of stone work
.12 Cutting and dressing of stone
See 515.8 Stereotomy; 736 Stone carving
.2 Brick construction
.21 Bonds of brick work
.22 Adobe or sundried brick, etc.
.3 Terra cotta construction Tile
.4 Hollow tile and porous terra cotta construction
.5 Concrete and beton construction
.6 Plastering
.61 External plastering and stucco
.62 Internal plastering
.63 Ornamental plaster work
.64 Scagliola
.65 Wooden lath
.66 Metal lath (Wire, etc.)
.67 Mineral wool linings, etc.
.7
.8 Fireproofing
.9

694 Carpentry: joinery, stairbilding

.1 Wood construction; general
.2 Joints of woodwork Framing
.3 Strengthend beams
.4 Posts Colums See also 721.31
.5 Paneld and lattist construction
.6 Joinery, general For Finishing, varnish, polish, etc. see 698.3
.7 Ornamental joinery Cabinet work
For cabinetmaking see 684
.8 Stairbilding See also 515.83 Stereotomy
.9 Other branches See also 721.87–.89

695 Roofing: slating, tiling

For roof construction see 721.5

.1 Wood: shingle
.2 Slate
.3 Tile
.4 Metal: tin, copper, led, zinc
.5 Iron
.6 Asfalt Tar Concrete (Melted)
.7 Felt Asbestos Paper (In rolls)
.8 Textil: duck, canvas
.9 Thatch and other coverings

696 Plumbing Gas and steam fitting, etc.
- .1 **Plumbing** For principles of sanitation see 628
- .2 **Gasfitting**
- .3 **Steamfitting**
- .4 **Rivets and riveted joints**
- .5 **Screws and screw joints**
- .6 **Rust or calkt joints**
- .7 **Anchors Band irons**
- .8 **Other branches**
- .9 **Plumbing laws** See also 614 Public helth

697 Heating and ventilation
See also sanitary engineering, 628.8; home economics, 644. For lighting see 628.9
- .1 **Fireplaces**
- .2 **Stoves**
- .3 **Furnaces**
- .4 **Hot water, high and low pressure**
- .5 **Steam, high and low pressure**
  For boilers, see 621.184; for power plants, see 621.19
- .6 **Gas: coal gas, water gas, natural gas**
- .7 **Electric and other methods**
- .8 **Smoke flues and chimneys**
- .9 **Ventilation: air ducts, condits, fans, air conditioning**

698 Painting Glazing Paperhanging Tapestry
- .1 **Painting Oil**
- .2 Distemper and fresco
- .3 Varnishing Polishing
- .4 Other modes of protection
- .5 **Glazing** For Staind glass see 748
- .6 **Paperhanging**
- .7 **Textil hangings: tapestry**
  For tapestry design, see 745
- .8 **Relief work: lincrusta, stampt lether, etc.**
- .9 **Other branches**

699 Carbilding
Railway and tramway cars, passenger and freight, with or without motors. For highway cars see 629.2

Fine Arts
Recreation

700 Fine arts
For complete list of form divisions see Table 2 after Relativ index. Collected writings on Fine arts in general ar to be clast in 704.9 divided like 08 as given in Table 2

701 Philosofy Theory
- .1 General conception Nature and character
  Definition, limits and extent
- .15 **Psicology of art**
  Imagination in art, etc.
- .16 **Stile**
  General characteristics of stile in art. Special stiles: impressionistic, surrealist, etc.
- .17 **Esthetics**
  Beauty, sublimity, grace, proportion, symmetry, rithm, pictureskness, groteskness (the comic), ugliness, taste, etc.
- .18 **Criticism in art**
- .8 Tecnical methods Models

702 Compends Handbooks Outlines

703 Dictionaries Cyclopedias

704 Essays Lectures Addresses Collected works
- .9 Collected works
  Divided like 08 in Table 2 after Relativ index
- .94 **Iconografy Cartografy**
  Albums, atlases, portfolios. Include here general discussions of special objects as represented in art
- .941 General questions
- .942 Human figures Portraits
  Nude, clothed or draped figures; groups: genre, historical, etc.
  - 4 Women 5 Children
    See also 136.757 Childstudy

704.943 Nature
Esthetic aspects, etc. Stil life, scenery, landscapes, marines, seascapes, etc.
2 Animals 4 Plants Flowers
.944 Buildings Architectural subjects
.945 Devices Patterns Ornamentation
.946 Symbolism Emblematic art Allegoric figures
Dance of deth, etc. See also 246.5 Emblematic art in Ecclesiology
.947 Mythology Heroes Legends Fables
.948 Religious art
See also 246 Ecclesiology
1 General questions
2 Christian art and sybmolism
3 Early Christian and medieval
Art of the catacombs, Byzantine art
4 Bible illustrations
Bible characters (see also 704.9486 Apostles, saints, etc.), Last judgment, special parts of the Bible, etc.
5 Trinity in art
God; Christ, Good Shepherd and similar figures, 2d coming, etc., Holy family; Holy spirit
6 Apostles Saints Angels Nimbuses, aureolas, etc.
See also 704.9484 Bible characters in general
7 Devils
8 Other Christian art
9 Non-Christian religious art
.949 Other special objects
May be divided like the whole classification

705 Periodicals Annuals Directories
706 Organizations Societies
.9 Persons in relation to art
Artists: professional, amateur; art critics and historians; art collectors, patrons, etc.
707 Art education Study and teaching

708 Art galleries and museums
For museum economy, collecting, etc. as applied to art 708.001–.009 may be divided so far as needed like 069.01–.09 and 708.01–.09 like 069.1–.9; e.g. 708.0017 Private art collections, 708.051 Collecting art materials. For general collected writings on art use 704.9, general art exhibitions 707.4
Arrangement may be alfabetic by city and gallery or by geografic subdivisions as given under each number below
.1 American: Boston, Corcoran, Metropolitan, etc.
May be divided like 970, e.g. 708.153 Corcoran art gallery, Washington, D. C.
.2 English: Hampton Court, National, Windsor, etc.
May be divided like 942, e.g. 708.219 Hampton Court, Middlesex, Eng.
.3 German: Berlin, Dresden, Munich, etc. Austrian: Vienna, etc. Polish, Hungarian, etc.
May be divided like 943, e.g. 708.315 Berlin
.4 French: Louvre, Luxembourg, etc.
May be divided like 944, e.g. 708.436 Louvre, Paris
.5 Italian: Barbonico, Medici, Pitti, Sistine, Vatican, etc.
May be divided like 945, e.g. 708.56 Vatican
.6 Spanish: Madrid, Seville, etc. Portuguese
May be divided like 946, e.g. 708.64 Madrid
.7 Russian: Hermitage, Leningrad, Moscow, etc. Finnish, etc.
May be divided like 947, e.g. 708.74 Hermitage, Leningrad
.8 Scandinavian: Copenhagen, etc.
May be divided like 948, e.g. 708.89 Copenhagen, Denmark
.9 Other countries
Divided like 930–999; e.g. 708.9492 Amsterdam, Netherlands; 708.9521351 Tokyo, Japan

709 History of art in general Divided like 930-999

710 Landscape and civic art

For complete list of form divisions see Table 2 after Relativ index

SUMMARY

711 **Regional and city planning**
712 **Landscape architecture Landscape gardening**
713 **Landscape construction and maintenance**
714 **Water features**
715 **Vegetation Trees, shrubs, hedges**
716 **Herbaceous plants**
717 **Structural elements**
718 **Cemeteries Monuments Mausoleums**
719 **Natural landscapes Scenery**

711 Regional and city planning

The intelligent control and guidance of the phisical conformation, growth and alteration of cities, towns, [districts] or considerable parts thereof, considerd in their entirety. (F. L. Olmsted)

For general description of special cities see 913–919. 711.093–.099 may be used for city plans and descriptions of individual cities from standpoint of city planning. For form divisions see Table 2 after Relativ index

SUMMARY

.1 **General questions**
.2 **National and international planning**
.3 **Regions Regional planning**
.4 **Localities: cities, towns, villages**
.5 **Districting Zoning**
.6 **City building**
.7 **Transportation system**
.8 **Condits Wires**
.9 **Other topics**

.1 General questions

City planning movement, municipal improvement, civic betterment movement, etc.; development, plans, etc. See also 712.1 Landscape improvement movement

.11 Stages of development

Investigation of stage of development, civic development surveys

711.12 Types of development Professional practis

Spontaneous v. pland development: purpose, activities, progress, etc.; organization (see also 711.173 Administrativ agencies), publicity, action by community. Data: collection and presentation. Making, composition and presentation of city plans: economic and esthetic design, etc. Direction or supervizion of construction and maintenance. Special aspects of city plans, general considerations and broad relations: social aspects, social ethics, etc. (see also 711.13 Demografy); esthetic aspects, civic beauty, etc. (see also 711.65 Color of buildings); historical aspects, truth to historical type, preservation of individuality and historical features (see also 711.52 Archeologic centers, 719.353 Historical reservations)

.13 Demografy Population Social conditions

Man-made environment; growth and changes of population. Centralization, citiward movement v. decentralization, countriward movement. Concentration in high buildings, congestion of population (see also 711.552 Density in commercial and industrial centers, 711.65 Structures according to height). Housing (see also 331.833 Housing of laboring classes, 711.48 Residential cities, 711.58 Residential districts, 711.667 Residences). Industrial conditions. Transportation, circulation (see also 711.7 Transportation system). Public helth and safety, sanitation, defense (see also 614 Public helth in Medicin, 623 Military engineering, 628 Sanitary engineering). Public education (see also 370 Education, 711.666 Education buildings). Public recreation (see also 711.52 Open spaces, 711.558 Recreation areas, 711.668 Buildings for recreation, 712–719 Parks and gardens, 790 Amusements). See also 312 Demografic statistics, 711.12 Social aspects of city plans, 711.423 Types of cities according to ethnografic character

.14 Economics

Economic resources, land economics and policy (see also 333 Land in Economics). Advantages or disadvantages of situation, etc. Land valuation, use of land, effect of taxation on land development. Economics of land subdivision and arrangement (see also 711.63 Blocks and lots). Natural conditions and environment: topografy, city sites (see also 711.421 Types of cities according to topografy, 711.76 Waterways and waterfronts, 712.53 Water parks, 719.346–.348 Shore reservations); climate (see also 711.422 Types of cities according to climate); soil, geologic character and type, subsoil, fertility, etc.; natural resources, mineral welth, water power, etc. Artificial topografy: removal of hils, filling low or submerged areas, reclamation. Commercial and industrial opportunities; etc.

.15 Financial conditions

Municipal finances in relation to city planning. See also 352.1 Local government finance

711.16 Changes involvd in pland development
Arrangement and rearrangement; evacuation and destruction of districts, slum clearance; changing purpose of buildings, districts, etc.; rehabilitation; extension. See also 711.52 Civic unity

.17 Legislation and administration
Legal and administrativ conditions, limitations of existing legislation, etc.

.172 Legislation
Creating or empowering administrativ agents. Laws relating to public and private properties, rights, etc. Acquisition of land and other privately ownd property and utilities. Creation of easements, rights of way, etc.

.173 Administration
Public agencies (see also 352.5 Municipal public works): relation of national, state and municipal agencies, etc.; existing public agencies: departments, etc. of city engineers, public works, parks, harbors, ports, etc.; specially created public agencies: city planning departments and commissions, art commissions, etc.; public consultation and employment of experts (including discussions covering both official and unofficial consultation of experts). Private agencies, public service corporations. See also 711.12 Agencies promoting city planning movement

.2 National and international planning
Planning for units larger than regions

.3 Regions Regional planning
See also 711.582 Rural planning

.31 General questions
May be divided like 711.1, e.g. 711.314 Economic aspects of regional planning

.32 Regions according to external aspects
Uncultivated, forested (see also 719.332 Forest reservs), agricultural or cultivated, mining and quarry, industrial or manufacturing, sightseeing and recreation, composit, etc. regions. See also 711.5 Zoning

.33 Regions according to political status and size
Planning for large and small regions; state and interstate planning; counties, political districts, etc. For national and international planning see 711.2

.35, .37–.38 may be used and divided like 711.5, .7–.8
E.g. 711.35 Regional zoning, 711.352 Regional design, etc. In general prefer 711.5, .7–.8

711.4 Localities: cities, towns, villages
Types of city plans

.41 General questions
Types of plats, group forms. See also 711.63 Blocks and lots

.412 Informal grouping
Radiocentric, curvilinear; scattered, cowpath, 'chemin des ânes'; rectilinear, composit

.413 Formal grouping
Gridiron, chesboard, Penn plan, Roman camp; gridiron and diagonal, L'Enfant plan; radius and round-point, arterial and radial, spider web

.414 Military and naval towns Fortified towns Strongholds
War camp sites. See also 623 Military and naval engineering, 711.67 Fortifications, 711.763 Defensiv works of bays, harbors and basins, 719.37 Military and naval reservations

.415 Sanitary plat
See also 628 Sanitary engineering

.416 Linear cities
Shoestring arrangement, tentacular and ribbon development

.417 Satellite cities Twin cities

.42 Types of places in general

.421 According to topografy
Cities on plains; hilly or mountainous country; in valleys, on hiltops, etc. Coast or shore cities (see also 711.455 Watering places); island cities; river cities (see also 711.762 Rivers). See also 711.14 Topografic conditions of site

.422 According to climate
See also 711.14 Climatic conditions of site

.423 According to ethnografic character and types of population
Caves, caverns, clif dwellers; etc.; primitiv cities (for Ancient and primitiv city planning use 711.0901); early lake cities, European lake dwellers, etc. (for modern lake cities see 711.421 Shore and island cities); cities in trees. Cities according to race (Semitic, Aryan, Teutonic, English, etc.) and nationality. See also 711.13 Demografy, population

711.424 According to historical, monumental or architectural character

Places according to international, national, regional or local architectural stiles; skiscraper cities, etc. (see also 711.65 Architectural stile of buildings, 722–724 Architecture). Ded or abandond towns. See also 711.52 Archeologic centers, 719.353 Historical reservations

.425 Inner cities

E.g. City of London, Forbidden city (Peiping)

.426 According to materials used

May be divided like 691, e.g. 711.4262 Cities predominantly of stone structures. See also 711.65 Building materials and types of construction

.427 Imaginary places Utopias

Ideal or model types. See also 321.07 Political utopias

.43 Places according to size or importance

Metropolises; large, medium size and small cities and towns; villages, village improvement movement; civil parishes, hamlets; boros; urban districts

.45 Places according to dominant function

See also 711.55–.58 Functional centers, which, in general, prefer. Subdivisions of 711.45–.48 and of 711.55–.58 ar parallel and interchangeable as needed. See also 711.66 Structures according to use

.451 Governmental Capitals

.452 Commercial

Distributing centers in general

.453 **Shipping points**

Railroad, port and harbor, and airport towns. See also 711.753 Railroads, 711.76 Waterways, 711.772 Aviation terminals

.454 **Industrial**

2–99 may be divided like 620–699, with 1 divided like the whole classification for other industries; e.g. 711.45422 Mining towns

.455 Helth and plesure resorts

Watering places: seashore, lake, hot spring and hil or mountain resorts (see also 711.421 Coast or shore cities); sanitarium towns; places of retirement, suburbs of unhelthy cities. See also 613.12 Hygiene of helth resorts

.458 World city World civic center

.46 Religious

Cathedral towns, etc.

.47 Educational

College and university towns

.48 Residential

See also 711.13 Housing, 711.667 Residences

711.5 **Districting Zoning**

Organization and subdivision of city area by dominant function. See also 711.32 Regions according to external aspects

.51 General questions

.52 Differential concentration of zones and districts

Types of zones, centers and districts in general. Civic unity: group design, interrelation of buildings in groups (see also 711.16 Changes involvd in pland development). Open spaces, squares, public and quasi-public, other than for traffic (see also 711.13 Public recreation, 711.551 Centers for public works, 711.558 Recreation areas, 712–719 Landscape architecture, parks and gardens). Centers and buildings of archeologic and historical interest (see also 711.12 Preservation of historical features, 711.424 Places according to historical character, 719.353 Historical reservations). Blighted areas

.55 Functional centers Building groups

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.551 Civic centers

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.552 Commercial and industrial centers Business districts

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.553 **Shipping centers**

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.554 **Industrial centers**

See note under 711.454 for method of subarrangement. See also 711.559 Boundary areas, 711.764 Industrial waterfronts

711.555 Centers for hygienic, helth and safety institutions
Hospital, asilum, etc. areas

.556 Prison and reformatory zones

.557 Zones for travelers and temporary residence
Hotel and restaurant districts, tourist camps, etc.

.558 Recreation and amusement centers
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.559 Boundary areas Boundaries
Approaches and entrances; defensiv areas. See also 711.554 Agricultural areas, 711.67 Boundary structures, 711.77 Terminal facilities

.56 Religious centers and communities

.57 Intellectual and educational centers
Areas for libraries, museums, exposition groups, academies, schools, etc.

.58 Residential centers Neighborhood planning
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.581 General questions
Density of population, intensivness of occupancy, number of houses to acre, etc.

.582 Nonurban or residential areas
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.583 Urban and suburban residential areas
Districts distinguisht by predominant type of residences. Districts for welthy, middle and poorer classes (see also 712.647 Estates for special classes of people). Tenement areas, slums; cottage areas; apartment house districts, etc. (see also 711.62 Arrangement of structures). Garden suburbs (see also 711.582 Garden cities). Residential park districts. Suburban cities and towns (see also 712.643 Suburban estates). See also 711.7 Transportation system

.585 Undesirable and unhelthy districts

.586 Uninhabitable districts and houses
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.588 Racial centers

711.6 City building
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.61 General questions
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.62 Arrangement of structures
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.63 Blocks and lots Land subdivision
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.631 General questions

.632 Blocks
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.64 Alinements
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711.66 Structures according to use

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.661 Public buildings Governmental and civil

Including national, state and municipal buildings. Administrativ buildings: capitols, court houses, city halls, etc. Buildings for special municipal services: fire and police stations, prisons, reformatories; pumping stations, sewerage and sewage disposal buildings; gas tanks; power houses; municipal incinerators, stables, etc.

.662 Business and commercial buildings

Stores, retail and wholesale; office buildings; financial institutions: banks, etc.; markets, market buildings; refreshment establishments: cafés, saloons, etc.

.663 Buildings for transportation and storage

Railroad stations, warehouses, etc. For port structures see 711.764. See also 711.753 Railroad station areas, 711.77 Terminals

.664 Industrial buildings

Factories, mils, etc. See note under 711.454 for suggested method of arrangement

.665 Hospitals, asilums, etc.

.666 Religious and educational institutions

Churches, schools, libraries, exposition buildings, museums, etc. See also 711.13 Public education

.667 Hotels Clubs Residences

Arrangement of residences (see also 711.62 Arrangement of structures). Apartments, tenements, cottages, etc. See also 711.13 Housing, 711.48 Residential cities, 711.58 Residential districts, 711.632 Residential blocks, 711.633 Residential lots, 711.74 Residential streets, 728 Residential architecture

.668 Buildings for recreation

Opera houses, theaters, auditoriums; public baths, gymnasiums, etc. See also 711.13 Public recreation, 712.545 Playground structures

.669 Minor buildings

Shelters, pavilions (see also 711.752 Street railway shelters, 712.545 Playground shelters); public comfort stations (see also 717.66 Comfort stations in Landscape architecture); bandstands, etc.; booths, street stands; greenhouses (see also 716.3 Greenhouses in Landscape architecture); service stations; etc. See also 711.68 Accessory structures, 717.682 Park and garden shelters, bandstands, etc. in Landscape architecture

711.67 Protectiv and defensiv structures

Dams, dikes, levees, flood protection (see also 627 Hydraulic engineering). Fortifications, forts (see also 623.1 Military engineering, 711.414 Fortified towns). Boundary structures: walls, fences, gates, etc. (see also 711.559 City boundaries, 711.632 Treatment of block boundaries). See also 711.763 Waterfront protection and defenses

.68 Accessory structures

Monuments and statues (see also 717.9 Monuments and statuary in parks and gardens, 718.66 Monuments in cemeteries); fountains, basins, drinking fountains, trofs, etc. (see also 714.3 Fountains, etc. in Landscape architecture); clocks, flagpoles, street and park accessories: seats, waste cans, etc. (see also 712.514 Park furniture, 717.9 Garden furniture); lighting fixtures; city scales; advertizing and display structures; bilboard regulation and removal (see also 659.134 Advertizing); etc. See also 711.669 Minor buildings, 711.727 Street furniture

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.7 Transportation system

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.71 Regional National International

National and state roads

.72 Urban system in general

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.721 General considerations

Legislation (for traffic regulation see 388). Professional considerations: data, traffic censuses, data on vehicles (e.g. motor trucks); design; construction and maintenance, cost. Influence of traffic on street form, street plan, etc.; congestion of traffic. Influence on streets of changes in means of transportation, development of motor traffic. Proportion of street area to block area (see also 711.632 Relation of blocks to streets); etc.

.722 Location and orientation

Location of main thorofares (see also 711.73 Thorofares); of minor streets (see also 711.74 Local streets). See also 711.632 Orientation of blocks

.723 Structure

Form, cros section, pavements, multiple streets, parkt streets, etc. See also 625.7 Road and street engineering, 711.751 Relation of railways, subway approaches, etc. to street, 715.148 Street planting, 715.1753 Vegetation suitable for street planting

711.724 Street junctions
Intersection of lines of traffic, avoidance of collision points; viaducts to avoid crossings at grade (see also 711.726 Bridges, 711.753 Railroad crossings)

.725 Relation to buildings
Setbacks; encroachments of buildings, balconies, projections, etc.; coverd streets, arcades, colonnaded streets, galleries; relation to height of buildings. See also 711.64 Alinements, 711.65 Buildings according to height

.726 Bridges Tunnels
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.727 Street furniture
Street name plates, police and fire alarm boxes, mail boxes, hydrants, etc. See also 711.68 Street accessories, 711.752 Trolley poles and wires, 715.148 Street planting

.728 Subsurface utilities in relation to street
Special subways, etc. See also 711.752 Underground railways, 711.8 Condits and wires

.729 Other topics

.73 Thorofares Highways
Traffic streets, arterial and interurban highways, communication between center and suburbs. Special forms: radial, periferal, etc. Business thorofares, traffic squares, round-points, cabstands, 1-way streets. Plesure thorofares, drives: formal, boulevards, etc.; informal, parkways, etc.; concourses, bridle and bicicle paths. See also 711.722 Location of main thorofares; and in Landscape architecture 712.524 Squares, 712.547 Fields for special sports, 713.7 Roads, drives, etc., 715.1753 Vegetation suitable for street planting

.74 Local streets and footways
Alleys; private ways; local business streets, as frontage for business buildings, etc., business squares; local residential streets, residential squares, 'places'; footways, sidewalks, promenades, malls, steps, ramps, footbridges (see also 711.726 Bridges in general), etc. See also 711.58 Residential centers, 711.667 Residences, 711.722 Location of minor streets; and in Landscape architecture 712.524 Squares, 715.1753 Vegetation suitable for street planting

711.75 Street railways Railroads
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.751 General questions
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.752 Street railways
Including interurban street railways. Surface (see also 711.727 Street furniture, 711.8 Condits and wires), elevated and underground railways, subways (see also 711.726 Bridges, viaducts, tunnels, etc., 711.728 Subsurface utilities in relation to street). Stations, shelters; station approaches, escalators, etc. (see also 711.669 Shelters and pavilions, 711.773 Passenger terminals). See also 388.4 Street railways in Sociology, 625.6 in Engineering; 711.552 Relation of commercial centers, 711.558 of recreation centers, and 711.583 of suburban growth to transportation facilities; 711.772 Street railway terminals, 711.773 Relation of passenger terminals to local transportation

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.762 Rivers Canals Inland waterways
See also 711.14 Rivers in city plans, 711.421 River cities, 711.726 Bridges

.763 Bays Harbors Basins
Channels, lighthouses, harbor lines, protectiv and defensiv works, etc. See also 711.414 Naval strongholds, 711.67 Protectiv and defensiv structures

711.764 Commercial waterfronts

Capacity, frontage, fire protection, etc. Docks, slips, wharvs, etc. (see also 712.534 Recreation piers). Special provision for passengers, for freight (see also 711.773 Passenger and freight terminals). Shipyards, dry docks (see also 623.83 Ship-building docks. Industrial areas, utilization of waterfront by manufacturing plants, etc. (see also 711.554 Industrial centers). For recreational waterfronts see 712.53; see also 711.14 Topografic conditions of site, 719.346–.348 Shore reservations

.77 Terminal facilities

See also under 380 Commerce, 656 Transportation; 711.559 Boundary areas, 711.663 Buildings for transportation and storage

.771 General questions

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.772 Types according to mode of transportation

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.773 Types according to kind of traffic

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.81 General questions

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.82 Condits, pipes, etc.

For watersupply and distribution (see also 628.14 Water supply condits in Engineering); sewerage and surface drainage systems (see also 628.2 Sewerage engineering); subsurface drainage systems; gas distribution; central heating systems; penumatic tubes (see also 654.8 Communication). See also 628 Sanitary engineering, 711.726 Aqueducts

.83 Wires

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.9 Other topics

712 Landscape architecture Landscape gardening

The art of fitting land for human use and enjoyment. . . . Arrangement and . . . development of land and the objects upon it in connection with private grounds and gardens, institutions, public parks, playgrounds and squares, cemeteries, streets and parkways, residential communities, and problems of city and regional planning. (American Society of Landscape Architects).

Parks and gardens. See also in City planning 711.13 Public recreation, 711.52 Open spaces, 711.558 Recreation centers. For form divisions see Table 2 following Relativ index.

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712.23 Landscape effect

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.27 Landscape compositions and their compositional elements

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712.3 Tecnical procedure Professional practis

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.52 Parks according to size

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.53 Water parks Recreational waterfronts

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.541 **General questions**

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.542 **Amusement parks**

See also 791 Amusement parks as public entertainment

.543 **Open air concert gardens Tea gardens**

Outdoor restaurants and refreshment places

Beer 'gardens', etc.

.545 **Playgrounds Athletic fields**

Distribution of playgrounds, etc. Legislation; administration, regulations, from landscape architecture side only (for playground management in general see 796). Design: ground surface and surfacing; plants, playground planting; structures (see also 717.687 Structures for outdoor sports), gymnasiums, fieldhouses, shelter buildings, etc. (see also in City planning 711.668 Recreation buildings, 711.669 Shelters and pavilions); playground furniture, lighting, seats, apparatus; fences, screens, etc. (see also 717.85 Back stops); roads, paths, bridges, etc.; construction, maintenance, cost, etc. See also 717.686 Stadiums and amfitheaters, 796 Athletic and outdoor sports and games, theory of play, etc.

.546 **Types according to use**

Recreation centers, neighborhood and social centers, combining provision for all ages (see also 374.28 Community centers in adult education); school playgrounds (see also 371.61 School premises, 712.58 School grounds, 712.75 College and university grounds), roof playgrounds, block interior playgrounds (see also 711.632 Block interiors in City planning), athletic fields, etc. (see also 796 Athletic fields in general). May be arranged alfabetically by name of type

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.55 Exposition and fair grounds

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.56 Public gardens Zoologic and botanic parks

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.57 Dril grounds, etc.

.58 Grounds of public buildings and building groups

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.6 Private parks and gardens

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.62 Plesure gardens

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.624 **Design**

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2 Stiles of gardens

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712.6243 Composition of garden

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5 Topografy

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6 Gardens at special seasons or hours

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.626 **Gardens of special plant materials**

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.63 Service gardens
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48 Access and entrances Circulation
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.8 Boundary and approach structures
.9 ' Garden furniture ' Ornamental accessories

.1 General questions

.2 Materials
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.4 Design
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717.5 Construction and maintenance
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.6 Buildings
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.61 General questions
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.62 Building groups
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.63 **Residences Houses House location**
See also 712.64147 House and house terrace in private estates

.64 **Service buildings and other service structures**
See also 712.64147 Service buildings in private estates

.65 Farm buildings
Stables and stable yards, barns and barnyards, sheepfolds, piggeries, henhouses, icehouses, etc. See also 631.2 Farm buildings in Agriculture, which in general prefer

.66 Other service buildings
Dovecotes, birdhouses, etc. (see also 712.56 Aviaries in zoologic parks); apiaries, beehives (see also 638.1 Bee keeping); windmils, watertowers, etc.; gate lodges; garages, garage yards; service yards (see also 713.72 Service roads and turns), laundry, gardeners' and compost yards; gardeners' service buildings: potting sheds (see also 716.3 Greenhouses, 716.4 Plant windows), hotbeds, cold frames (see also 635.98 Floriculture under glas), toolhouses; comfort stations (see also 711.669 Public comfort stations in City planning); etc.

.67 Accessory service structures
Hitching posts, mounting blocks; tree guards, gratings and railings; lawn guards, etc. For drinking fountains and watering trofs see 714.32

717.68 **Plesure buildings and other plesure structures**
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.681 General questions

.682 Outlooks Shelters Arbors
Outlook towers, gazebos, pagodas, etc. (see also 712.28 Objects as marking points commanding views in landscape composition). Pavilions, resting places, shelters, 'ruins' in romantic landscape designs, etc.; playhouses; bandstands. Pergolas, arbors, etc. See also 711.669 Shelters, pavilions, bandstands, etc. in City planning

.683 Freestanding decorativ colonnades

.684 Orangeries Stanzoni

.685 Grottoes Mazes Labirinths

.686 Structures for outdoor entertainments
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.687 Structures for outdoor sports
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.69 **Other buildings**

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.71 General questions

.72 Terraces, etc.
House terraces (see also 712.64147 House and house terrace in private estates); sunk panels; mounts, as in Tudor gardens

.73 Embankments
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.74 Structural shore treatment Shore embankments
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717.8 Boundary and approach structures
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.81 General questions

.82 Materials
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.83 Details
Parapets, balustrades, railings, grils, lattices, treillage, trellises, copings, posts and post finials, niches, garlands between posts, etc.

.84 Walls
Retaining walls (see also 717.7 Terraces, embankments, etc.), sea walls (see also 714.21 Shore protection, 717.74 Shore embankments), foundation walls, etc. See also 712.626 Wall gardens

.85 Fences
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.86 Gates Gateways
Lich gates, garden arches, etc.

.87 Stiles
Turnstiles, step stiles

.88 Steps, ramps, perrons, slope steps, etc.
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.89 Other

.9 'Garden furniture' Ornamental accessories
Details of design, pedestals, etc. Monuments and statuary in gardens and parks, war memorials, statuary gardens (for monuments in cemeteries see 718.66; see also 711.68 Monuments and statues in City planning, 712.524 Monumental squares); urns, vases, etc.; ornamental plant pots and boxes, garden pottery (see also 716.4 Window gardens); lanterns, Japanese lanterns, etc.; gazing globes, sundials, outdoor ovens and fireplaces, outdoor seats, tables, exedrae, etc. For ornamental water structures see 714.3. See also 711.68 Street and park accessories in City planning, 712.28 Objects marking points of interest in landscape composition, 712.514 Park furniture

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.2 Legislation

.3 Administration Regulations

.4 Design Stiles
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.5 Construction and maintenance
Cost; subdivision, cemetery lots

.6 Elements

.61 General questions

.62 Ground forms, including water

.63 Roads, paths, entrances, etc.

.64 Bridges

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.66 Monuments Hedstones, markers
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.67 Buildings
Chapels, columbariums, mausoleums

.68 Cemetery furniture
Lighting, seats, etc.

.69 Other

.8 Special types of cemeteries
According to religion, topografy, climate, race, nationality; fraternal, etc.

719 Natural landscapes Scenery
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.22 According to dominant ground forms and topografy
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.233 Woodlands Forests
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.234 Graslands Prairies Pampas
.235 Deserts
.25 According to climate
.26 " " effects of human occupation and activities
.262 Pastoral landscapes Pastures
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.3 Reservations
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.32 Types according to ownership
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.34 Scenic reservations Preservation of landscape
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.1 Foundations

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.11 General questions
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.131 General questions

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.163 Concrete platforms

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.166 Concrete legs or stilts

.167 Cantilever foundations

.17 Subaqueous foundations

.171 Cofferdams
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.173 Pneumatic caisson

.174 Freezing

.175 Pneumatic forcing

.176 Sunken wels
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.177 Sunken tubes

.2 Walls

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.21 Wood Halftimberd

.22 Stone

.23 Artificial stone
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.24 Other materials
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.25 Bases Courses
Plinths, footings; earth, gras, ground and ledgment tables; podium; water tables; belt, string, lintel and sil courses; offsets; batter, slope. For crowning, block and blocking courses see 721.27

.26 Arcades Colonnades

.261 General questions

.262 Arcades
Free standing, blind, intersecting, memorial, etc. arcades. Interlacing arches and archivolts (see also 721.428 Archivolts in general). Arcade bands, arcatures, spandrels, etc. See also 721.4 Arches, 729.334 Arcade design

.263 Colonnades
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721.27 Entablatures Crowning courses
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.271 General questions

.272 Architraves Epistiles
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.273 Friezes
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.274 Cornices Wall cornices
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.275 Attics

.276 Parapets Blocking courses
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.277 Copings Fractables

.28 Gables Pediments
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.29 Other walls

.291 Sustaining walls
Bearing and retaining walls; basement, external, party, internal (see also 721.292 Partitions), springing, etc. walls

.292 Partitions
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.293 Solid walls

.294 Hollow or cavity walls Chamferd walls

.3 Columnar constructions
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.31 Wood

.32 Stone

.33 Concrete Artificial stone

.34 Other nonmetallic materials
Brick, terra cotta, etc.

.35 Metals
Iron, steel, etc.

.36 Fireproof Protected

.37 Architectural types

.371 General questions

.372 Piers Abutments
Simple, compound, engaged, etc.; pilasters, piedroits; pilaster masses and strips, antes, responds; buttresses, buttress piers (see also 721.426 Flying buttresses); pillars, pillarets (for Midwall pillars see 721.363 Midwall columns)

721.373 Columns Colonnets
Midwall, triumfal, etc.; lats, stambas, etc. For Compound or clusterd columns see Compound piers; Engaged columns see Pilasters 721.372

.374 Posts
Simple, compound, trellis, etc. posts. See also 624.9 Roof framing, 694.8 Stairways, 721.863 Door and window inclosures

.38 Details
Pedestals, plinths, stilobates; bases, base blocks; shafts, drums; capitals, imposts, impost blocks, summers; fluting, etc.

.39 Other topics

.4 Archt constructions
See also 624.6 Archt bridges, 721.262 Arcades, 721.864 Archt door and window inclosures, 729.33 Arch design

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721.41–.42	**Arches**	**.46–.47**	**Domes**	
.43–.45	**Vaults**	**.48**	**Niches**	**Mihrabs**

.41 Arches
Circular or 1-centerd arches. For architectural stiles (Roman, Byzantine, Romanesque, Saxon, Norman, etc.) see 729.333. Clas here general works on arches. See also 721.456 Types of ribs

.411 General questions on arch construction

.412 Round Semicircular
Rollock or rowlock, surmounted (see also 721.427 Concentric and stilted arches), bel, etc.

.413 Segmental
Diminisht, imperfect, scheme or skeen (these terms ar sometimes applied to other forms); flat segmental, camberd (see also 721.421 Flat arches in general). See also 721.422 Pointed segmental

.414 Horseshoe Moorish Saracenic
See also 721.422 Pointed horseshoe

.42 Other forms
For Cloisterd and Groin arches see 721.44 Cloisterd and Groind vaults (see also 721.456 Groin ribs); Oblique or skew arches see 721.455 Skew vaults; Splayd arches see 721.455 Expanding vaults

.421 Straight Flat Horizontal
Jack arches; sholderd, Dutch, French, etc. See also 721.413 Flat segmental arches

721.422 **Pointed**

Triangular: primitiv, miter, pediment, truncated; corbeld; 2-centerd, ogival or Gothic: acute, lancet; equilateral; blunt, drop, obtuse — deprest, surbased (these terms ar sometimes applied to other forms); pointed segmental (see also 721.413 Segmental arches in general); pointed horseshoe, Moorish or Saracenic (see also 721.414 Horseshoe arches in general); multicentered pointed: Tudor, Persian; ogee, contrasted, keel

.423 **Multicentered unpointed**

Compound, composit, mixt (these terms ar sometimes applied to other forms); basket handle; hanse or haunch (these terms ar sometimes applied to other forms); catenary, parabolic, hyperbolic; elliptic; cycloidal; oval, etc. Use as general number for Multicenterd arches. Clas general works on Unpointed arches in 721.41 Circular arches

.424 **Poligonal**

.425 **Arches clast by position**

Diagonal, transverse, longitudinal or wall, open, blind, abutment or outer, back or rear, etc. arches. See also 721.456 Ribs

.426 **Arches clast by function**

Discharging, relieving, safety; flying buttresses, semiarch, straining or trus arch, arch buttant, arch buttress (see also 721.372 Buttresses in general, 721.455 Continuous flying buttress); trimmer, squinch, triumfal, memorial, etc. arches

.427 **Arches clast by mode of construction**

Materials: built, laminated (sometimes cald Compound, for which see 721.423); wood, masonry, etc. Centerd; hand; concentric, stilted (see also 721.412 Rollock and surmounted arches); rampant, raking, rizing (sometimes cald Oblique, for which prefer 721.455 Oblique vaults); inverted, reverst, inflected; decorated (for design see 729.33): recest (sometimes cald Compound, for which see 721.423), cuspt, foild, lobed, foliated, scallopt, trefoild, Moorish multifoild, etc.; subarches, intradosed, soffited, extradosed, etc. Oblique and skew arches ar preferably clast as vaults; see 721.455

.428 **Details**

Haunches, reins; crown; voussoirs, keystones; intrados, soffit; extrados, back; archivolt, face (see also 721.262 Intersecting arcades, 721.272 Architraves, 721.865 Door and window archivolts); timpanum (see also 721.28 Pediments, 721.865 Door and window timpanums)

.429 Other topics

721.43 Vaults

Cylindric vaults. Clas here general works on vaults, cripts, and vaulted ceilings. May be divided like 721.41, e.g. 721.434 Horseshoe or Moorish vaults. For vault design see 729.34. See also 721.7 Ceilings

.44 Groind

Cros, compound, intersecting. Clas here also Groin arches. Quadripartite vaults, formd by 2 intersecting vaults: common groind vaults; domical (see also 721.46 Domes); Welsh, underpitch; oblique intersecting (see also 721.455 Simple oblique vaults). Tripartite vaults, formd by 3 intersecting vaults. Poligonal vaults, formd by 4 intersecting vaults. Coved or cloisterd vaults, cald also Cloisterd arches (see also 721.47 Square domes)

.45 Other forms

.451–.454 **divided like 721.421–.424**

E.g. 721.452 Pointed vaults

.455 **Tunnel vaults** **Expanding vaults**

Barrel, cradle, wagon; annular; helicoid; horizontal; inclined; skew, oblique (also cald skew arches; see also 721.427 Rampant arches, 721.44 Oblique intersecting vaults); half vaults, continuous flying buttresses (see also 721.426 Flying buttress arches); expanding, splayd or contracting vaults (also cald Splayd arches): conic, conoidal, etc.

.456 **Rib and fan vaulting**

Also cald Gothic vaulting. Simple and compound rib vaulting; tripartite, etc.; Welsh, pendant, lierne, etc. rib vaulting. Diagonal or groin ribs, ogives; transverse ribs, arcs doubleaux; wall or longitudinal ribs, formerets; intermediate ribs, tiercerons; liernes: ridge ribs (liernes according to French usage), cros ribs (liernes according to English usage). See also 721.41–.42 Arches, 721.452 Pointed vaults

.457–.459 **divided like 721.427–.429**

E.g. 721.458 Vault details, vault voussoirs, etc.

.46 Domes

Circular domes. Clas here general works on domes and cupolas. Hemisferic; segmental, diminisht, saucer; bulbus, onion shaped; flaring, bel shaped; with multicenterd unpointed profile; pointed; polihedral, etc. domes according to profile. For dome design see 729.342. See also 721.44 Domical groind vaults, 721.576 Domed roofs, 721.588 Ogee roofs

721.47 Other forms
According to horizontal section, mode of construction, etc. Multicenterd, elliptic; convoluted, melon shaped; triangular; square, rectangular (see also 721.44 Coved vaults); poligonal; half domes, etc. Drums, tambours, pendentivs, etc.

.48 Niches Mihrabs
.49 Other
.5 Roofs
See also 624.9 Roof engineering, 695 Roof coverings, 729.35 Roof design
.51 Wood
.52 Masonry Artificial stone
Concrete, etc.
.53 Other nonmetallic materials
Glas, etc.
.54 Metallic
.55 Roof openings Roof windows
See also 721.8 Doors and windows
.551 General questions
.552 Hypethral openings Compluvia
Including hypethral buildings in general
.553 Dormers
.554 Skilights Lucerns
.555 Lanterns Cimborios
See also 725.976 Tower lanterns
.556 Lucarns Lutherns Spire lights
.557 Scuttles Hatches
.558 Louvers
.559 Other
.56 Roof decorations
See also 721.263 Balustrades, 721.276 Parapets, 729.35 Roof design
.561 General questions
.562 Crestings
Finials: hip knobs, épis, ridge spikes; ridge ornaments; vanes, bannerets, wethervanes; antefixes; lightning rods; radio antennas (see also 621.384135 Antennas in Radio engineering)
.563 Reliefs
Repoussé work; sculpture, carving, statuary, etc. See also 729.5 Decoration in relief, 730 Sculpture
.564 Roof cornices Decorativ eavs
See also 721.274 Wall cornices, 721.865 Door and window cornices
.565 Bargeboards Gable boards
.566 Ornamental roofing
Colord tiles, etc. See also 695 Roofing

721.57 Spires and other roof structures Domed roofs
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.571 General questions
.572 Spires Broaches
.573 Steeples
.574 Fleches Spirelets
.575 Pinnacles
.576 Domed or cupolated roofs
Roof domes and cupolas. See also 721.46 Domes
.578 Pent houses Roof houses
See also 721.592 Penthouse roofs
.58 Gable roofs Ridge and span roofs
Clas here double pitch roofs in general. See also 721.28 Gable walls, 721.865 Door and window gables
.581 General questions
.582 Triangular
.583 Gambrel Dutch
See also 721.592 Curb roofs
.584 Truncated
Jerkinhed, shredhed. See also 721.592 Hip roofs
.585 M roofs Trof and V roofs
.586 Saddleback roofs
.587 Sawtooth roofs
Half gables, canted or 'factory' roofs
.588 Imperials Ogee roofs
See also 721.46 Ogee domes
.589 Other forms of gabld roofs
.59 Other forms of roofs
.592 According to slope and profile
Flat; single-pitcht, penthouse (for pent houses as roof structures see 721.578); curb, mansard, French roofs (see also 721.583 Gambrel roofs); hip, pavilion, pyramidal roofs (see also 721.584 Jerkinhed roofs); valley roofs; cylindric roofs (see also 721.597 Barrel roofs)
.593 According to horizontal section
Triangular, square, round, irregular, etc.
.597 According to mode of construction
Single-framed; coupld; trust, scissor-rafter; cradle, barrel, compass (see also 721.592 Cylindric roofs); homogeneous, etc. See also 624.9 Roof framing
.598 Roof details
Roof parts, drainage, etc.

721.6 **Floors Flooring**

Construction and coverings

.61 Wood

.62 Stone Artificial stone

Concrete, etc.

.63 Other nonmetallic materials

Brick, hollow tile, etc.

.64 Metallic Compound

.65 Composit

Coverings only

.66 Parquetry

.67 Mosaics

See also 729.73 Mosaic floors, parquetry

.68 Tiles

See also 695.3 Roofing tile

.69 Other coverings

·7 **Ceilings**

For vaulted ceilings see 721.43–.45 Construction, 729.34 Design

·71 Wood

·72 Stone

·73 Brick or tiles with iron or steel materials Ceramic

·74 Metallic

·75 Concrete Plaster

.8 **Openings and their fittings**

See also 721.55 Roof openings

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.84–.85	**Windows**	.88	**Fastenings Locks**
.86	**Door and window inclosures**	.89	**Other details**

.81 Doors

Wooden doors. Clas here also general works on doors, doorways and portals

.82 Of other materials

.822–.829 divided like 691.2–.9

E.g.721.826 Glas doors

.83 Other classes of doors

.833 **According to form**

Single, double (for French doors see 721.846 French windows; see also 721.836 Folding doors), double margin, Venetian, Dutch, half doors, turnstiles

721.835 **According to position and function**

Storm and wether doors; jib, conceald and secret doors; blank, sham and false doors (also cald Blind doors; see also 721.837 Slatted doors); trap and cellar doors; portes-cochères, posterns, wickets, gates (see also 725.975 Gate towers), etc.

.836 **According to method of hanging**

Swinging doors: hinged, pivoted, etc.; crapaudine, revolving, folding or accordion doors (see also 721.833 Double doors); flapping or flap doors. Sliding doors, portcullis. Rolling doors (see also 721.872 Shutters)

.837 **According to type of construction**

Batten, cleated or ledgd; panel or framed; sash or glazed; slatted (also cald Blind doors; see also 721.835 Blank doors, 721.873 Blinds); lattice, screen (see also 721.875 Window screens), etc. doors

.838 **Structural details**

Slabs, cleats, battens, ledges, panels, stiles, slats, rails (see also 721.891 Tracks)

.84 Windows

External windows. Clas here general works on windows

.841 General questions

.842 Materials

May be divided like 691, e.g. 721.8427 Windows with steel frames

.843 According to form

Single, coupld, clusterd, Venetian. Diocletian, Palladian, Wyatt, half windows; rose, round or wheel windows, oculi; fanshaped (see also 721.845 Fan lights), etc. windows

.845 According to position or use

Storm or double sash windows; blank, blind or false windows; lowside or offertory windows, lycnoscopes, squints, hagioscopes; pede, lunet, transom windows, fanlights (see also 721.843 Fanshaped windows, 721.862 Transoms); bay windows: bow or compass windows, oriels, cabinet windows. See also 721.55 Roof openings

.846 According to type of construction and method of hanging

Swinging windows, casements: hinged, pivoted, etc., French windows. Sliding or sash windows. Fixt, lattice, hit and mis, etc. windows

.848 Structural details

Sashes, casement sashes; sash bars, muntins, leds, cames (see also 721.862 Mullions, transoms); panes, quarrels

721.85 Internal windows
May be divided like 721.84 e.g. 721.855 Internal fanlights

.86 Inclosures of doors and windows

.861 General questions

.862 Frames Cases
Jams, reveals; pulley boxes or cases, sash pockets; lintels (clas here all squareheded openings); sils, stools; mullions, transoms (see also 721.845 Transom windows, 721.848 Sash bars, muntins)

.863 Columnar inclosures
May be divided like 721.37, e.g. 721.8633 Door and window columns

.864 Archt inclosures
Clas here all archshaped openings. For straight or squareheded openings see 721.862 Lintels. If further subdivision is desired use 1 Circular divided like 721.41, 2–7 divided like 721.422–.427; e.g. 721.86414 Moorish, 721.8642 Pointed door and window inclosures

.865 Hoods Caps
Architraves (see also 721.272 Architraves in general); archivolts (see also 721.428 Archivolts in general); gables, pediments, frontons, coronets, gablets (see also 721.28 Wall gables, 721.58 Gable roofs); timpanums (see also 721.428 Timpanums in general); cornices (see also 721.274 Wall cornices, 721.564 Roof cornices); consoles, brackets

.866 Balconies

.867 Porches Verandas Stoops
Awning or canopy porches (see also 729.934 Canopies as fixt furniture). See also 721.263 Porticos

.868 Fire escapes

.869 Other

.87 Gratings Guards

.871 General questions

.872 Shutters
See also 721.836 Rolling doors

.873 Blinds
Persiennes, etc. See also 721.837 Slatted or blind doors

721.874 Grils

.875 Screens
Window screens. See also 721.837 Screen doors, 729.96 Screens as architectural accessories

.876 Guard bars

.88 Fastenings Locks
For doors, windows, screens, etc. Catches, bars, hooks, bolts, espagnolets, etc.

.89 Other details

.891 Hanging apparatus
Hinges, pivots, tracks, rails (see also 721.838 Door rails), rollers, pulleys, sash weights and cords, chains, etc.

.892 Opening and closing apparatus
Handles, knobs, adjusters, springs, stops, etc. See also 721.894 Push plates

.893 Signaling apparatus
Knockers, doorbels, speakingtube openings, etc.

.894 Plates Scutcheons
Knob and keyhole scutcheons; push plates (see also 721.892 Opening and closing apparatus), doorplates, number plates, house numbers, mail slots, card holders, etc.

.895 Wetherstrips Ventilators

.9 Iron and composit structures
For strengh of materials see 620.11 Engineering, for their suitability for building purposes see 691 Building

.91 Cast iron

.92 Wrought iron

.93 Steel

.94 Composit

.95 Iron and wood

.96 " " stone

.97 " " ceramic materials Reinforst concrete

.972 Iron and brick

.973 " " terra cotta

.974 " " tile

.975 " " artificial stone Reinforst concrete

.98 Iron and glas

.99 Glas and other materials

.992–.999 divided like 620.12–.19
E.g. 721.994 Glas

722–724 Architectural stiles

Here ar clast works on architectural stiles as such. General and local architectural history and geografy ar clast in 720.9 divided like 930–999. As all subsections of 722–724 ar further subdivided by regions and periods like 930–999, an extra 0 must be added before applying the form divisions as given in Table 2 after the Relativ index; e.g. 722.7 Ancient Roman architecture, 722.703 Roman architecture during the period 509–264 B. C., 722.7003 Cyclopedia of Roman architecture. Architectural discussions of individual ancient buildings should usually be clast by stile in 722, of all other buildings by function in 725–728; e.g. the Parthenon 722.804, York cathedral 726.65. See also in City planning 711.424 Cities according to architectural stile, 711.65 Buildings according to architectural stile

Detaild subdivisions hav been workt out for the various regional and period stiles in the ful expansion available at the Decimal Classification Editorial Office, Library of Congress, Washington, D. C. Illustrativ examples ar given below under the various English stiles

SUMMARY

722 Ancient, Oriental, Pagan
- **.1 Chino-Japanese**
- **.2 Egyptian**
- **.3 Phenician**
- **.4 Southeast Asiatic**
- **.5 West Asiatic**
- **.6 Classic Greco-Roman**
  - **.7 Roman**
  - **.8 Grecian**
- **.9 Other: American Indian, Celtic, etc.**

723 Medieval, Christian, Mohammedan
- **.1 Early Christian**
- **.2 Byzantine**
- **.3 Mohammedan, Saracenic, Moslem**
- **.4 Romanesque**
- **.5 Gothic**

724 Modern
- **.1 Renaissance Neoclassic**
- **.2 Classic revival 19th century**
- **.3 Gothic " Romanticism**
- **.4 Victorian Gothic**
- **.5 Electicism**
  - **Renaissance adaptations and revivals: Queen Anne, Georgian, etc.**
- **.6 Néo-Grec**
- **.7 Timber Half-timber Swiss**
- **.8 Romanesque revival**
- **.9 Other**

722 Ancient, Oriental, Pagan architecture

Seven wonders of ancient world. All subsections may be further subdivided like 930–999; e.g. 722.1131 Ancient, 722.1151 Modern stiles of Chinese architecture. See also 571.8 Prehistoric dwellings

.1 Chino-Japanese

.11 Chinese

.12 Japanese

.2 Egyptian

See also 723.123 Egyptian early Christian, 723.31 Egyptian Mohammedan

.3 Phenician Tyrian Sidonian

See also 722.5 West Asiatic

.31 Nativ Phenician

Tyrian, Sidonian

.32 Colonial Phenician

Carthaginian, Cypriote

.33 Jewish

722.4 Southeast Asiatic stiles

Cave temples. See also 726.1 Religious temples

.41 India

See also 723.34 Southeast Asiatic Mohammedan

.413 Buddhist

.414 Jaina

.415 Hindu Brahman

Indo-Arian, Sanskrit, Northern; Chalukyan, Central; Dravidian, Southern

.42 Himalayan

.43 Burmese

.44 Siamese

.45 Cambodian Khmer

.46 Javan Malay

.5 West Asiatic

See also 722.3 Phenician, 722.61 Aegean

.51 Mesopotamian

Chaldean, Babylonian, Assyrian

.52 Ancient Persian

Median, Achaemenian, Sassanian. See also 723.33 Persian Mohammedan

.53 Parthian

.54 Hittite

.6 Classic Greco-Roman

For Classic orders see 729.326

.61 Aegean Pelasgic Homeric

Cyclopean, Minoan, Mycenaean. See also 722.5 West Asiatic

.62 Etruscan

.7 Roman

Amfitheater or Colosseum, Rome (see also 725.827 Amfitheaters in general); Pantheon, Rome (see also 726.12 Roman temples). For Roman orders see 729.326

.8 Grecian (Greek) Hellenic

Acropolis, Athens (see also 725.183 Citadels); Parthenon, Athens (722.804) (see also 726.12 Greek temples). Archaic, Periclean, Alexandrian, etc. periods. For Greek orders see 729.326

.9 Other

.91 American (Pre-Columbian) Indian

.911 Aztec Toltec Nahuatl Zapotec (Tzapoteco) Mexican

.912 Maya Central American Yucatan

.913 Incan Peruvian

.917 North American (general and other)

.918 South " (" " ")

.92 Celtic

723 Medieval, Christian, Mohammedan architecture

Seven wonders of medieval world. For method of subdivision of subsections see note under 722–724

.1 **Early Christian**
.11 Western Latin
.12 Eastern Oriental
.121 Anatolian Asia Minor
.122 Syrian
See also 723.31 Syrian Mohammedan
.123 Coptic Egyptian North African
See also 722.2 Ancient Egyptian, 723.31 Egyptian Mohammedan, 723.321 North African Mohammedan
.2 **Byzantine**
.21 Armenian
.22 Russian
.23 Moldavian
.3 **Mohammedan Saracenic Moslem**
.31 Arabian Syrian Egyptian
See also 722.2 Ancient Egyptian, 723.122 Syrian early Christian, 723.123 Egyptian early Christian
.32 Moorish Moresque
.321 North African
See also 723.123 North African early Christian
.322 Hispano-Moresque Spanish
For the Alhambra see 725.17
.33 Persian Iranian
See also 722.52 Ancient Persian
.34 Southeast Asiatic
Pathan, Sharki, Ghujerati; Bengali, Bahmani, Bijapûri; Mogul. See also 722.41 Ancient and general southeast Asiatic
.35 Turkish
.4 **Romanesque**
Pre-Romanesque, Carolingian
.41–.48 divided like 941–948; e.g.
.42 English
.4201 **Saxon**
2 **Norman**
21 Early
23 Late
.49 Other countries
Divided like 940–999; e.g. 723.49493 Flemish or Belgian Romanesque

723.5 **Gothic Pointed Ogival**
.51–.58 divided like 941–948; e.g.
.52 English
.5203 **Plantagenet**
31 Transitional
32 Early English stile Early Plantagenet
Lancet 1st pointed 13th century
35 Decorated Later Plantagenet Middle pointed Edwardian 14th century
36 Geometric
37 Curvilinear Flowing
4 **Perpendicular Rectangular Late pointed Lancastrian Florid Flamboyant 15th century**
5 Tudor
.59 Other countries
Divided like 940–999, e.g. 723.59492 Dutch Gothic

724 Modern stiles of architecture

All subsections may be further subdivided like 940–999 (for examples see below)

.1 **Renaissance Neoclassic**
Divided like 940–998; e.g.
.142 English
05 Early Transition
16th century
055 Elizabethan
061 Jacobean
062 Late Anglo-classic Anglo-Italian
Anglo-Palladian Portico
Post-renaissance, compromize, 17th–18th century
069 Queen Anne
07 Georgian
Pseudoclassic stile, academic supremacy, 18th century
.146 Spanish
Plateresque, Griego-Romano, etc.
.173 United States Colonial American Queen Anne and Georgian
.174–179 **Regional stiles**
Divided like 974–979; e.g. 724.174 New England or northern colonial, 724.1747 Dutch colonial, 724.175 Southern colonial, 724.1794 California mission (for Spanish colonial use 724.172; for mission churches see 726.55)

724.199 Baroque Rococo
Renaissance decline; including Italian post-renaissance, decadenza, seicento (724.19945)
2 **Baroque**
3 **Rococo**
4–9 **By country divided like 940–999; e.g.**
46 Spanish
4605 **Baroque**
53 Rococo Churrigueresque
.2 **Classic revival 19th century**
.22 Roman
.23 Greek
.24–.29 Regional
Divided like 940–999; e.g.
.242 English
07 Periods
073 Roman phase
074 Greek "
.273 United States
4 **Roman phase**
5 **Greek "**
.3 **Gothic revival Romanticism Medieval revival**
.342 English
07 Early phase Castellated stile
For later phases see 724.4 Victorian Gothic
.4 Victorian Gothic
Tudor or Elizabethan Gothic revival, 'battle of the stiles'
.5 **Eclecticism Renaissance adaptations and revivals**
.599 Special phases
1 **Queen Anne revival and adaptations**
2 **Georgian revival and adaptations**
3 **Baroque " " "**
.6 Néo-Grec
.7 **Timber Half-timber Swiss stile**
.8 **Romanesque revival and adaptations**
.9 **Other stiles**
.91 20th Century
No satisfactory name has been agreed upon to characterize present day stiles: functionalism, modernistic, streamlined, etc.

725–728 Special types of buildings

May also be clast under their special subjects, e.g. 022 Library buildings in Library science. See also in City planning 711.66
Structures according to use

725 Public buildings

Civil and industrial architecture. For form divisions see Table 2 after Relativ index.

SUMMARY

725.1 **Administrativ Governmental**
.2 **Business Commercial**
.3 **Transportation Storage**
.4 **Factories Mils**
.5 **Hospitals Asilums**
.6 **Prisons Reformatories**
.7 **Refreshment, bath and park buildings**
.8 **Recreation buildings**
.9 **Other public buildings**

.1 **Administrativ Governmental**
.11 Capitols Legislativ halls
Houses of parliament, state houses; provincial, national, international. For city and county buildings see 725.13
.12 Ministries Executiv departments
May be divided like 353.1–.8, e.g. 725.125 Ministries of justice (see also 725.15 Courthouses, palaces of justice). For government buros and offices see 725.132, postoffices 725.16, military buildings 725.18
.129 Peace palaces
.13 Government buros and offices Local government buildings
For capitols and legislativ halls see 725.11
.131 General questions
.132 Government buros Public offices
For government departments see 725.12
.135 County buildings
See also 725.15 County courthouses
.136 Township buildings
.137 Municipal buildings
City, town, village halls; broletto, hôtel de ville, rathaus, etc.
.14 Customs buildings Excise offices
.141 General questions
.142 Customhouses
Customs watchhouses
.143 Excise offices Internal revenue offices
.144 Mints
.145 Customs warehouses
Bonded warehouses. See also 725.35 General warehouses
.147 Local taxation offices
Toll houses, toll gates, octroi houses

725.15 Courthouses Record offices
Tribunals, palaces of justice; international, national, state, county (see also 725.135 County buildings), municipal and justices' courts, etc. See also 725.125 Ministries of justice
.158 Record offices Archives buildings
.16 Postoffices
Postal stations, etc. See also 725.124 Postoffice dept. For postoffice cars see 699
.17 Official residences Palaces of rulers
Executiv mansions. International, national (e.g. Alhambra), state, local. See also 728.3 City mansions
.178 Embassies Legations Consulates
.18 Military buildings Police stations
See also 623 Military engineering, 725.126 Ministry of war
.181 General questions
.182 Barracks Casernes
See also 623.612 Barracks in Military engineering
.183 Citadels Forts Fortresses
For the Acropolis, Athens, see 722.8. See also 623.1 Fortifications in Military engineering
.184 Armories
.185 Guard rooms
.186 Cantonments Army huts Dril halls
.187 Arsenals Magazines
See also in Military engineering 623.47 Arsenals, 623.614 Magazines
.188 Police stations
For morgs see 726.88. See also 725.62 Lockups
.189 Other
.19 Other public buildings
Structures for public works, etc.
.191 Fire stations
Engin and truck houses, fire alarm and fire patrol stations, watch towers (see also 725.97 Towers in general)
.193 Waterworks
Aqueducts, reservoirs, pumping stations, water towers (see also 725.97 Towers in general), etc. See also 728.995 Private watertanks and towers
.194 Sewerage works Refuse disposal plants
Public sanitary works, disinfecting and cleaning stations, refuse plants, municipal incinerators
.195 Municipal depots and yards Public work shops
Municipal stables, etc.
.196 Public washhouses Lavoirs
Riverside washhouses, toilets, comfort stations, rest rooms
.197 Weights and mesures offices
.198 Public light and power plants
Electric, gas, etc. works

725.2 Business Commercial
.21 Stores
.211 General questions
.212 Wholesale stores
.213 Retail stores Shops
Chain stores, branches; stalls, kiosks
5 **Shop fronts Show windows**
.214 Department stores
.215 Mail order houses
.22 Mixt store, office and apartment buildings
Store or office buildings with halls or auditoriums (see also 725.8 Recreation halls). For apartment buildings in general see 728.2
.23 Office buildings
Insurance, law, medicin, telefone, telegraf, etc. office buildings (when banking or credit feature is emfasized clas in 725.24)
.232 Skiscrapers
.233 Loft buildings
.24 Financial and credit institutions
Banks, savings banks, trust and investment institutions, safe deposit banks (see also 725.35 Safe deposit storehouses), building and loan institutions
.248 Pawn shops Monts de piété
.25 Exchanges Boards of trade
.251 General questions
.252 Stock exchanges Bourses
.253 Commodity exchanges
Produce, provision, cotton, lumber, etc. exchanges
.255 Boards of trade Chambers of commerce
Commercial clubs, associations of commerce, etc. Some commodity exchanges ar cald Boards of trade, these should be clast in 725.253
.26 Market buildings
Wholesale, retail, shopping arcades
.27 Livestock markets Stockyards
Market crosses
.28 Abattoirs Slaughter houses
Packing houses
.29 Other business buildings
Including special rooms; e.g. board rooms, etc.

725.3 Transportation Storage

.31 Passenger stations for land transportation
Including combination railway and bus stations

.311 Small Country Suburban
Waiting rooms; see also 725.316 Waiting rooms as parts of station buildings

.312 Large City
Thru, terminal

.313 Union Junction

.314 Stations on 2 or more levels

.315 " " special types of railways
On inclined or mountain railways, etc.

.316 Parts of railway stations
Ticket offices, waiting rooms (see also 725.311 Waiting rooms as separate buildings), cloak rooms, platforms, bulletin boards, indicators, etc.

.317 Stage, bus and streetcar or tramway stations
Post houses

.318 Elevated railway stations

.319 Underground railway or subway stations

.32 Freight houses Express buildings
For land transportation

.33 Other railway buildings
Railway shops; roundhouses, inspection pits; car houses; watertanks; storehouses for railway supplies, etc.; fueling structures (see also 725.364 Coal handling plants); tool houses; guard and signal houses, switch towers (see also 725.97 Towers in general), etc.

.34 Dock buildings Ferry houses Marine buildings
Pier and wharf, port and harbor buildings. Wharf boats, landing stages; boat houses; combined commercial and recreation piers (see also 725.87 Recreation piers); weirs, locks; water mils, etc.

.35 Warehouses Storehouses
Storage structures and yards for merchandize, household goods, etc.; safe deposit storehouses (see also 725.24 Safe deposit banks); cold storage (see also 728.97 Private ice houses and cold storage houses). For grain elevators see 725.362, private granaries 728.9531. See also 725.145 Customs warehouses

.36 Elevators

.361 General questions

.362 Grain elevators
Floating elevators, etc. See also 725.35 Commercial grain storehouses, 728.9531 Private granaries

.363 Malt elevators

.364 Coal " Coal handling plants
See also 725.33 Railway fueling structures

725.365 Ore elevators
See also 725.431 Mine buildings, 725.432 Metallurgic establishments

.366 Sand and gravel elevators

.367 Cement, lime and plaster elevators

.38 Garages Service stations Livery stables

.381 General questions Garages in general
See also 728.949 Private garages

.382 Service stations in general

.383 Cleaning installations

.384 Filling stations

.386 Bus garages

.388 Livery stables
See also 728.941 Private stables

.39 Other transportation buildings
Air transport buildings, hangars, landing stages, mooring masts and pylons, aerial beacons (see also 725.976 Lighthouses). See also 728.949 Private hangars

.4 Factories Mils Industrial buildings

.41 Textil, clothing and lether factories

.411 General questions

.412 Textil factories or mils
Linen, cotton, wool, silk, etc. mils. May be divided like 677, e.g. 725.4123 Woolen mils

.413 Camp equipment, tent and awning factories
May be divided like 685.53, e.g. 725.4131 Tent factories

.414 Tanneries Lether factories

.415 Lether goods factories
Harness and saddle, belt, shoe, glove, trunk and luggage factories

.416 Fur factories

.417 Clothing factories
May be divided like 687, e.g. 725.4173 Hosiery mils

.418 Rubber and rubber goods factories

.419 Other

.42 Factories for chemicotecnical industries

.421–.425, .427–.428 divided like 661–665, 667–668
E.g. 725.4276 Paint factories. For ceramic and glas factories see 725.48

.43 Buildings for mining and mineral industries
Metal works

.431 Mine and quarry buildings
Hedframes, crushing and concentrating plants, tipples, washhouses, etc. See also 725.365 Ore elevators

.432 Metallurgic establishments
Ore reduction works, refineries, smelting works, etc. May be divided like 669, e.g. 725.4323 Copper refineries. See also 725.365 Ore elevators

725.433 Factories and mils according to processes employd
Forges, foundries, machine shops, rolling mils, etc. For storehouses see 725.35, woodworking shops, etc. see 725.44

.434 Factories using metals, building stones and other minerals
Factories for making articles of iron and steel: hardware, stoves, cutlery, etc.; of precious metals (gold, silver, etc.): jewelry, etc. (for watch and clock factories see 725.438); copper and its alloys: bels, etc.

.435 Tool, implement and machine factories
May be divided like 610–699; e.g. Agricultural implements 725.4353. For scientific instruments see 725.438. See also 725.442 Woodworking mils

.436 Blacksmith shops

.437 Lock and gun factories

.438 Factories for making watches, clocks and other instruments of precision
May be divided like 681, except for factories otherwize specially provided for; e.g. 725.43811 Watch and clock factories

.439 Other

.44 Sawmils and factories for making articles of wood
See also 725.46 Paper mils

.441 Sawmils Lumber mils
Lath and shingle mils

.442 Woodworking mils and shops
Carpenter shops; planing mils; sash and door, box and crate factories; veneer mils; ornamental woodworking shops for making moldings, scrollwork, interior finish, etc. See also 725.435 Implement factories

.443 Barrel factories Cooperage works

.444 Cabinet and furniture factories

.445 Woodenware factories

.446 Excelsior mils

.447 Cork factories

.45 Vehicle factories

.451 Carriage and wagon factories
Sleigh and sled factories

.452 Motor vehicle factories
Automobile, motor truck, motorcicle, etc. factories. May be divided like 629.22, e.g. 725.4524 Motor truck factories. For bicicle factories see 725.453

.453 Bicicle factories

.454 Car factories
Passenger, pullman, express, mail, freight, streetcar, etc. factories

725.455 Boat and ship factories
Shipyards, etc. May be divided like 623.82, e.g. 725.4555 Yards and factories for constructing warships

.456 Aircraft factories
May be divided like 629.133, e.g. 725.4562 Balloon factories

.46 Pulp and paper mils and factories for making articles of paper
See also 725.44 Sawmils and woodworking factories

.47 Grain mils Gristmils
Mils for flour, meal, feed, etc. May be divided like 633.1, e.g. 725.471 Wheat flour mils

.48 Glas and ceramic works
May be divided like 666, e. g. 725.487 Brick and tile factories

.49 Other factories and industrial buildings
Clas here only buildings not provided for in 725.41–.48. .492–.499 may be divided like 620–699; e.g. 725.492158 Ice plants. 725.491 may be divided like the whole classification for industrial buildings not otherwize provided for

.5 Hospitals Asilums
Charitable and welfare institutions. See also 725.6 Reformatories

.51 Sick Wounded
Infirmaries, surgeries, eye and ear hospitals, lying-in or maternity hospitals, lazarets, sanitariums for incurables, etc. May be divided like 362.1, e.g. 725.512 Dispensaries. For inebriate asilums see 725.65, baths 725.73, watering places 725.75. See also 725.57 Children's hospitals

.52 Insane asilums Madhouses

.53 Idiot, imbecil, feebleminded institutions

.54 Blind, def, dum asilums

.55 Institutions for paupers
Almshouses, poorhouses, workhouses; temporary lodgings, dormitories, etc.; pauper colonies

.56 Homes for the aged

.57 Child welfare institutions
Orfan asilums, children's hospitals, etc. May be divided like 362.7, e.g. 725.573 Orfan asilums. For general hospitals see 725.51, foundling asilums 725.58. See also 725.64 Juvenil reformatories, reform schools

.58 Foundling asilums

.59 Other
Soldiers and sailors homes, mountain hospices, buildings of general relief organizations, Red Cross, etc. (see also 726.9 Buildings of religious organizations); animal asilums and hospitals (see also 728.948 Private veterinary rooms and live-stock infirmaries). For spas, hydros, etc. see 725.75

725.6 Prisons Reformatories
See also 725.5 Hospitals, asilums

.61 Prisons Penitentiaries
National, state, etc.

.62 Jails Lockups
Detention, cel, station houses; workhouses for vagrants, petty offenders, etc. See also 725.188 Police stations

.63 Reformatories for adults
Magdalen houses, homes for fallen women, houses of correction

.64 Juvenil reformatories
Reform schools, houses of refuge, truant schools, industrial or training schools for juvenil delinquents. See also 725.57 Child welfare institutions

.65 Inebriate asilums Washingtonian homes
See also 725.51 Sanitariums

.66 Homes for drug addicts

.67 Internment houses and camps
For prisoners of war, enemy aliens, etc.

.7 Refreshment, bath and park buildings

.71 Eating places
Cafés, lunchrooms, pastry-shops, icecream parlors, cabarets, road houses, etc.

.72 Saloons Barrooms Taverns
Tap rooms, bodegas, beer cellars, public houses (pubs), etc.

.73 Baths
Warm, medicated, Turkish, Russian, etc. .731–.737 may be used like 613.41–.47, e.g. 725.735 Salt baths, and .738 used for Medicated baths. See also 725.51 Sanitariums

.74 Swimming baths Natatoriums
Open air baths

.75 Buildings for watering places and helth resorts
Buildings for spas, hydros, hot springs, mineral springs, winter resorts, etc. See also 725.51 Sanitariums, 725.78 Casinos, 728.52 Resort hotels

.76 Park buildings
May be divided as needed like 717.68 Plesure buildings in Landscape architecture, using .769 for service buildings; e.g. 725.762 Outlook towers

.77 Amusement park buildings

.78 Casinos
See also 725.75 Watering places

.79 Other

725.8 Recreation buildings
See also 725.22 Store and office buildings with halls or auditoriums

.81 Music, concert and orchestra halls
See also 725.83 Auditoriums

.82 Theaters Buildings for shows and spectacles

.821 General questions

.822 Playhouses Opera houses
Little theaters, marionet, pantomime and traveling theaters, etc.

.823 Vaudevil houses Burlesk and variety theaters

.824 Moving picture theaters Cinemas

.825 Panoramas Dioramas Cycloramas

.826 Hippodromes Circuses Coliseums

.827 Stadiums Amfitheaters Grandstands
Garden theaters, structures for outdoor sports, tennis courts, etc. May be divided like 796, e.g. 725.82733 Football stadiums. For the Amphitheater or Colosseum of Rome see 722.7

.828 Traind animal menageries and theaters

.829 Other

.83 Auditoriums
Halls for assemblies, meetings, lectures, readings, etc. See also 725.81 Music halls, 725.92 Temporary halls

.84 Buildings for indoor games
Bowling alleys; billiard saloons, pool halls, halls for ping pong or table tennis, etc.; card halls, halls for ches, checkers, backgammon, etc.; roulet halls, etc. For casinos see 725.78

.85 Gymnasiums Turnhalls Athletic clubs

.86 Rinks Motordromes Dancehalls

.861 General questions

.862 Skating rinks Ice palaces
Roller skating rinks

.863 Velodromes
Bicicle rinks and halls, motordromes, autodromes

.865 Indoor running tracks

.866 Dancehalls

.87 Boat houses. Recreation piers
Yacht and canoe clubs. See also 725.34 Combined commercial and recrcation piers

.88 Riding halls, clubs or schools

.89 Other

.891 Shooting galleries
For firearms and archery

.892 Race tracks
For horse racing, dog racing, etc.

725.9 Other public buildings

.91 Exhibition halls Fair buildings
See also 727.6–.7 Museums and art galleries

.92 Temporary halls Portable buildings
Religious: tabernacles (see also 726 Religious architecture); political; chautauqua halls; workmen's barracks, etc. Clas here only general discussions of portable buildings; individual buildings ar clast elsewhere according to purpose, e.g. Portable schools 727.1. For permanent auditoriums see 725.83

.93 Workmen's clubs and institutes Gild houses
Trades union halls

.94 Memorials War memorials
For special forms of memorials see numbers for those forms, e.g. 721.426 Memorial arches

.97 Towers
Usually it wil be found best to clas individual towers by purpose. For tower design see 729.36. See also 721.57 Spires, etc., 725.191 Fire watch towers, 725.193 Water towers, 725.33 Railway switch towers, 726.87 Mortuary towers

.971 General questions

.972 Materials
May be divided like 691, e.g. 725.9722 Stone

.973 Form Plan
Round, oblong, triangular, etc.; staged, leaning; composit, etc.

.975 Position
Detacht towers, free standing, independent; wall or mural towers, engaged, pavilion; buttress towers; central towers, gate towers (see also 721.835 Gates, 728.91 Gate houses), bridge towers (for towers as integral parts of bridges see 624 Bridges)

.976 Purpose
Refuge, defense, keeps, donjons, pele towers, observation or watch towers, etc.; bel towers, campaniles; clock towers; beacons, lighthouses (see also 725.39 Aerial beacons in air transportation); lanterns, including lanterns as parts of towers (see also 721.555 Roof lanterns); memorial towers, etc. Many towers wil be clast with the special types of buildings to which they belong, e.g. 726.28 Minarets, 726.597 Church towers

.977 Turrets
Echauguettes, bartizans, pepper box turrets, stair turrets, etc.

726 Ecclesiastic and religious buildings

See also 246 Ecclesiology, religious art, 725.92 Temporary halls, tabernacles. For form divisions see Table 2 after Relativ index

SUMMARY

726.1 Temples (nonchristian)
.2 Mosks Mohammedan temples
.3 Synagogs Jewish "
.4 Chapels Sunday-school buildings Parish halls
.5 Churches
.6 Cathedrals
.7 Conventual and monastic establishments
.8 Mortuary and sepulcral buildings
.9 Other religious buildings

.1 Temples (nonchristian)
Chaityas, pagodas, ziggurats, vimanas, sikras, teocalli, etc. See also 722.4 Cave temples, 722.7 Pantheon, Rome, 722.804 Parthenon, Athens

.11 General questions

.12–15, .19 divided by religion like 292–295, 299
E.g. 726.143 Buddhist temples, 726.19219 Assyro-Babylonian temples (ziggurats, etc.) For Mohammedan temples see 726.2, Jewish temples 726.3, Morman temples 726.5893

.2 Mosks Mohammedan temples
May be divided like 723.3, e.g. 726.22 Moorish. See also 726.82 Tomb-mosks

.28 Minarets
See also 725.97 Towers in general

.3 Synagogs Jewish temples

.4 Chapels Sunday-school buildings Parish halls
Christian and nonchristian

.41 Chapels
Small or accessory places of worship. Chapels of ease, oratories, cript chapels (see also 726.596 Cripts in churches, 726.82 Cript tombs), etc. See also 726.595 Chapels in churches, 726.81 Mortuary chapels

.42 Shrines
See also 726.86 Mortuary shrines, 726.95 Wayside shrines

.43 Baptistries
See also 726.596 Baptistries in churches

.44 Tithe barns

.45 Sunday-school buildings Parish halls

726.5 Churches

.51 General questions

.52 Form

Longitudinal: basilican, rectangular; cruciform, cros churches; hall churches, hallenkirchen. Byzantine, fortified, etc.

.53 By locality

.532 Urban

.533 Suburban

.534 Rural Village

.54 Parish churches

.55 Mission or district churches

See also 726.98 Missions

.56 Institutional and proprietary churches

.57 Collegiate churches

.58 By denomination

Divided like 280, e.g. 726.583 Episcopal churches

.59 Divisions Rooms

For Sunday-school accommodations see 726.45. See also 726.81 Mortuary chapels, 726.82 Tombs

.591 Approaches Entrances

Atrium, forecourt, porches (see also 726.592 Transeptal porches); narthex, vestibule, entrance hall, lobby, foyer, etc.

.592 Nave Transepts

Auditorium, aisles (see also 726.593 Chancel aisles), nave or main aisles; forenave; crossing; transeptal chapels (see also 726.595 Side chapels), transeptal porches (see also 726.591 Church porches in general); transept aisles and apses, etc.

.593 East arm Chancel

Choir and choir lofts; sanctuary, presbiterium; chancel aisles (see also 726.592 Church aisles in general); apse, rostrum, pulpit platform, triapsal end; parallel apses; ambulatory; periapse, chevet; retrochoir, etc.

.594 Bay design Ordinance

Ground arcade, triforium, clerestory

.595 Side chapels

Lady chapel, chantries, saints chapels, etc. See also 726.41 Chapels as separate buildings, 726.592 Transeptal chapels, 726.81 Mortuary chapels

.596 Sacristies, baptistries, etc.

Prothesis, diakonikon, cripts (see also 726.41 Cript chapels, 726.82 Cript tombs), etc. See also 726.43 Baptistries as separate buildings

.597 Towers

See also 725.97 Towers in general

726.6 Cathedrals

For forms and details see 726.5 Churches

.61 General questions

.62 Oriental

Armenian, Jacobite, Coptic, Nestorian

.63 Eastern Greek Russian

.64 Roman Catholic

.65 Protestant Episcopal

.68 Other

May be divided like 280 for denominations not provided for above

.69 Accessory structures

.691 Cloisters

See also 726.793 Cloisters as special buildings

.692 Chapter houses

.7 Conventual or monastic establishments

See also 726.97–.99 Buildings of religious associations

.71 General questions

.72 Abbeys

.73 Priories

.74 Friaries

.75 Nunneries Beguinages

.76 Cels

Monastic (Carthusian, etc.), ancorities, hermitage cels, hermitages. See also 726.795 Dormitory cels

.77 According to order or religion

Divided like 271.1–.98, using 726.7799 divided like 290 for nonchristian monastic establishments; lamasaries, viharas, etc.; e.g. 726.773 Franciscan, 726.7799432 Lamasaries

.78 Other topics

.79 Special buildings Accessory structures

See also 726.4 for Chapels, 726.5 Churchcs, 726.692 Chapter houses, 728.9 Outbuildings

.792 Abbot's or proir's lodgings

.793 Cloisters Ambulatories

See also 726.691 Cathedral cloisters

.794 Refectories Fraters

.795 Dormitories Cels

See also 726.76 Monastic cels in general

.796 Almonries

726.8 Mortuary buildings Sepulcral architecture
See also 718 Cemeteries, 730 Sculpture

.81 Chapels
Mortuary, cemetery, sepulcral chapels; undertakers chapels, funeral parlors; cemetery lodges. See also 726.41 Chapels as places of worship, 726.595 Chapels in churches

.82 Tombs Sepulchers
Burial places, graves; mausoleums, tomb-mosks (see also 726.2 Mosks in general); vaults, cripts (see also 726.41 Cript chapels, 726.596 Cripts in churches), charnel houses, ossuaries, church yard monuments, gravestones, cenotafs, memorial crosses, mural tablets, effigies, etc.; rock tombs (see also 726.84 Hypogeums, caves); sarcofagi. (See also 731.76 Sepulcral sculpture

.83 Crematories Columbariums Cinerariums

.84 Hypogeums Caves
Catacombs, tunnel tombs. See also 726.82 Rock tombs

.85 Pyramids, mastabas, etc.

.86 Mortuary shrines
Topes, dagobas, stupas. See also 726.42 Shrines in general

.87 Mortuary towers
Towers of silence, dakhmes, lanterns of the ded, cemetery beacons. See also 725.97 Towers in general

.88 Morgs Ded houses Mortuaries

.89 Other mortuary buildings

.9 Other religious buildings
See also 725.59 Buildings of general relief organizations

.91 Parsonages Rectories
Manse, vicarage, etc.

.92 Bishops and episcopal palaces

.95 Pilgrimage features Crosses Calvaries

.96 Lich gates
See also 728.91 Gate houses

.97 Buildings of Christian associations
Salvation army, Y M C A, Y W C A, etc. May be divided like 267, e.g. 726.973 Y M C A buildings. See also 726.7 Conventual or monastic establishments

.98 Missions
City missions, etc. See also 726.55 Mission or district churches

.99 Buildings of nonchristian religious associations
May be divided like 290, e.g. 726.996 Jewish

727 Educational and scientific buildings
For form divisions see Table 2 after Relativ index

SUMMARY

727.1 Schools (elementary)
.2 Secondary schools
.3 Colleges Universities
.4 Professional and tecnical schools
.5 Laboratories Research establishments
.6 Museums Herbariums Art galleries Studios
.7
.8 Libraries
.9 Other educational and scientific buildings

.1 Schools
Elementary schools, not including dormitory or boarding schools. Kindergartens, grammar schools, village schools, etc. Special rooms or buildings for such schools, study halls, recitation halls and clas rooms, assembly halls and auditoriums, teacherages and teachers rooms (for gymnasiums see 725.85, laboratories and shops 727.5, museums 727.6, libraries 727.8, outbuildings 728.9). Also schools for special classes of persons

.2 Secondary schools
Highscools, academies, seminaries (for theologic seminaries see 727.42), boarding schools

.28 Special rooms or buildings
Dormitories, dining halls, etc. See also note on special rooms under 727.1

.3 Colleges Universities

.31 General questions

.32–.35 may be divided like 378.152–.155
E.g. 727.343 Junior college buildings

.36 Women's colleges

.37 Men's "

.38 Special rooms or buildings
Society houses (for fraternity houses see 728.46), dormitories, dining halls, student commons, etc. See also note on special rooms under 727.1

.39 Other

.4 Professional and tecnical schools
Law, theology, etc. Divided like the whole classification, e.g. 727.42 Theologic seminaries

727.5 **Laboratories Research establishments**
Phisical, chemic, biologic, etc. Botanic and zoologic gardens, arboretums, etc. Divided like the whole classification, e.g. 727.552 Observatories

.6 **Museums Herbariums**
Divided like the whole classification, e.g. 727.65 Science museums. For art museums see 727.7. See also 069.2 Museum economy, 725.91 Exhibition halls

.7 Art galleries Studios

.71–.78 Types of galleries or museums
Divided like 710–780, e.g. 727.73 Sculpture galleries

.79 Studios
Divided like 710–780, e.g. 727.793 Sculptors studios

.8 **Libraries**
See also 022 Library buildings in Library science

.81 General questions

.82 " libraries
May be divided like 027, e.g. 727.824 Public libraries

.83 Special subject libraries
May be divided like the whole classification, e.g. 727.8361 Medical libraries

.84 Branch libraries

.85 Scriptoriums

.86 Delivery and deposit stations

.87 Reading rooms
May be divided like 022.5, e.g. 727.878 Children's. See also 727.829 Free reading rooms and newsrooms

.88 Special rooms and departments
May be divided like 022.6, e.g. 727.8822 Accession department

.89 Other

.9 **Other educational and scientific buildings**

.95 Learned society buildings
May be divided like the whole classification, e.g. 727.955 Scientific society buildings

.97 Buildings for adult education and self culture
Lyceums, community centers, continuation schools, night schools, institutes for encouraging self culture

728 Residences
See also in City planning 711.58 Residential centers, 711.667 Residences. For form divisions see Table 2 after Relativ index

SUMMARY

728.1 **Tenements Cheap dwellings**
.2 **Apartment buildings**
.3 **City houses Mansions**
.4 **Club and secret society buildings**
.5 **Hotels Ins**
.6 **Village and country homes Bungalows**
.7 **Chalets Seaside and mountain cottages**
.8 **Country seats**
.9 **Outbuildings Dependencies**

.1 **Tenement houses Cheap dwellings**

.11 City homes of poor

.12 Country tenements for poor
See also 728.68 Farm cottages

.13 Workmen's tenements Cités ouvrières
Workmen's homes. See also 331.833 Workmen's dwellings in Economics, 728.68 Laborers cottages

.18 Temporary dwellings

.2 **Apartment buildings**
For apartments in store or office buildings see 725.22

.21 General questions

.22 Apartment houses Flats
Duplex, multiplex, etc.

.23 Apartment or family hotels
See also 728.5 Hotels

.24 Bachelors apartments

.25 Women's "

.27 Rooming, lodging and boarding houses

.3 **City houses Mansions Palaces**
See also 725.17 Rulers palaces

.31 Between party walls Stone Concrete

.32 Brick Ceramic materials

.33 Wood and other materials

.34 Semidetacht, including end houses in city blocks Stone Concrete

.35 Brick Ceramic materials

.36 Wood and other materials

.37 Detacht Stone Concrete
Including general discussions of mansions, etc. of these special materials

.38 Brick Ceramic materials

.39 Wood and other materials

728.4 Club houses Buildings for secret societies

.41 General questions

.42 Social clubs

.43 Country clubs

Golf, cricket, etc. clubs

.44 Young people's clubs

Boy scouts, Campfire girls, etc. May be divided like 369.4, e.g. 728.442 Boys club buildings

.45 Political clubs

.46 Secret societies Fraternal organizations

Masonic temples, Od Fellows halls, etc. Benefit, frendly or provident societies, burial societies, insurance fraternities, etc. Student organizations, chapter and society houses, etc. (see also 727.38 General and nonsecret college society houses)

.47 Hereditary and patriotic societies

.471–.472 may be divided like 369.1–.2

E.g. 728.471861 American legion buildings

.5 Hotels Ins

See also 728.23 Apartment or family hotels

.51 City hotels

.52 Resort hotels

Summer and winter resorts, etc. See also 725.75 Buildings for watering places and helth resorts, 728.71–.73 Chalets

.53 Country ins Caravanseri Khans

.54 Hostels Youth hostels

.6 Village and country homes Bungalows Rural architecture

Small dwellings in general. For country seats see 728.8

.61 Village dwellings; on small lots

.62 Stone

.63 Brick Ceramic materials

.64 Concrete Stucco

.65 Part masonry, part wood

.66 All wood

.67 Farm houses

.68 " cottages

Laborers cottages, country homes of poor. See also 331.833 Workmen's dwellings in Economics, 728.12 Country tenements, 728.13 Workmen's tenements, 728.74 Seaside and mountain cottages

.69 Other

728.7 Chalets Seaside and mountain cottages

Summer homes. See also 728.52 Resort hotels

.71 Chalets on plains

.72 Seaside chalets

.73 Mountain "

.74 Seaside and mountain cottages

See also 728.68 Farm cottages

.75 Hunting seats and boxes

Shooting boxes, hunting towers, hunt clubs

.76 Houses on wheels

Trailers, etc. From architectural standpoint only

.77 Houseboats

.8 Country seats

For small country homes see 728.6

.81 Castles (fortified)

.82 Chateaux (unfortified)

.83 Manor houses

.84 Villas

.9 Outbildings Dependences

SUMMARY

728.91 Porters lodges Gate houses
.92 Servants quarters Cabins
.93 Kitchens Laundries
.94 Stables Carriage houses Garages
.95 Barns Granaries Crop storage buildings
.96 Dairies
.97 Ice houses Cold storage buildings
.98 Conservatories Greenhouses
.99 Other Garden houses, sheds, welhouses, etc.

.91 Porters lodges Gate houses

See also 725.975 Gate towers, 726.96 Lich gates

.92 Servants quarters Cabins

Bunk houses; quarters for gardeners, coachmen, gamekeepers, etc.

.93 Kitchens Laundries

Including accessory structures. Sculleries; larders, butteries, commissary rooms, food stores (see also 728.97 Cold storage buildings); smokehouses, curing sheds; washhouses; drying sheds

728.94 Stables Carriage houses Garages

.941 Horsestables

Private town, farm, club, breeders and trainers, sale, racing, etc. stables. See also 725.388 Livery stables

.942 Cattle, cow and dairy stables

Feeding, milking and calf sheds, shelters. See also 728.96 Dairies

.943 Sheep and goat stables Folds

Sheep sheds and racks, shearing sheds, etc.

.944 Hog houses Sties

Pig pens, piggeries

.945 Poultry and fowl houses

Henhouses, laying and hatching sheds, brooders, incubator houses; ostrich, pigeon and other bird houses and shelters; aviaries, etc.

.946 Kennels Hutches

Dog, fox and wolf kennels; catteries; rabbit, hare and guinea pig hutches, etc.

.947 Stables and shelters for other animals

Elefant stables, apiaries, silkworm sheds, etc.

.948 Accessory structures

Feed rooms (see also 728.95 Granaries, barns, silos, etc.), harness rooms, farrieries, horseshoeing sheds, veterinary rooms, live stock infirmaries (see also 725.59 Public animal hospitals), dung pits, etc.

.949 Carriage houses Garages

Coach houses, carriage and washing sheds (for temporary shelter), hangars. See also 725.381 Public garages, 725.39 Public hangars

.95 Barns Granaries Crop storage buildings

See also 728.948 Feed rooms, 728,97 Cold storage rooms

.951 General purpose barns

Barns including stables, carriage houses, machine sheds, etc.

.952 Silos

See also 728.948 Feed rooms

728.953 Barns for storing and processing field crops: grain, hay, roots, etc.

Granaries, corn cribs, hay and straw barns, root houses, hop dryers, etc. May be divided like 633, e.g. 728.9531 Granaries. See also 725.35 Commercial grain storehouses, 725.362 Grain elevators

.954 Barns for storing and processing fruits and nuts

Fruit houses, dryers, evaporators, etc. May be divided like 634, e.g. 728.95411 Apple packing sheds

.955 Barns for storing and processing garden crops

May be divided like 635, e.g. 728.95564 Tomato packing sheds. For crops represented in both 633 and 635 prefer 728.953

.956 Threshing and cleaning barns and sheds

.958 Wagon, implement and machine sheds

.96 Dairies

Combined dairy and icehouse, milk houses, creameries, butter dairies, cheese houses, cheeseries. See also 728.942 Dairy stables, 728.995 Spring houses

.97 Ice houses Cold storage houses

Refrigerator ice houses. See also 725.35 Public cold storage warehouses, 728.93 Larders, 728.95 Barns and crop storage buildings

.98 Conservatories Greenhouses

Winter gardens, hothouses, orchid and palm houses; graperies, ferneries, cold houses, etc. For park greenhouses see 725.769. See also 716.3 Greenhouses in Landscape architecture

.99 Other

.991 Garden houses Pavilions

Summer houses, grottoes

.992 Privies

.993 Scale houses

.994 Sheds

Woodsheds, fuel sheds, etc. See also numbers for special sheds

.995 Wels Watersupply buildings

Welhouses, wel curbs; pump houses; windmil towers; watertanks and towers (see also 725.193 Public waterworks); spring houses (see also 728.96 Dairy houses)

729 Architectural design and decoration

Architectural details. Discussions of such details in particular buildings or types of buildings may be clast under numbers for those buildings or types. For design in general, theory, etc. see 745. See also 717.4 Design of structural elements in Landscape architecture, 744 Architectural drawing, 747 Interior decoration; also design of special types of buildings under special subjects, e.g. 022.34 Design of library buildings in Library economy. For form divisions see Table 2 after Relativ index

SUMMARY

729.1	**Elevation Sections Façades**	.6	**Incrustation Veneering**
.2	**Plans Horizontal sections**	.7	**Mosaic**
.3	**Elementary forms (design)**	.8	**Ornamental glas design Window tracery**
.4	**Painted decoration**	.9	**Architectural accessories**
.5	**Decoration in relief**		**Fixt and built-in furniture**

.1 Elevation Sections Façades

.11 Composition

.12 Distribution

Disposition, subdivision, grouping and division of masses, repetition, contrast

.13 Proportion

Harmony, balance, symmetry

.14 Light and shade

For projection of shadows and grafics of light and shadow see 515.63 and 515.7

.15 Perspectiv effect

.16 Axial and center lines

.17 Accenting Emfasis

.18 Sections Vertical sections

Longitudinal, transverse, diagonal, brokcn, obiique

.19 Other topics

.2 Plans Horizontal sections

.21 Elements required Composition

Types of plans: formal, informal, picturesk, block, ground, floor, roof (see also 729.35 Roof design), pcrspcctiv. Setting and purpose of building. Rooms: number, size, shape, seating capacity, etc. Lighting (see also 729.384 Window design and fenestration). Acoustics

.22 Distribution

.23 Proportion

Harmony, balance, symmetry

.24 Sequence of rooms

.25 Circulation Communications

Horizontal: halls, corridors, etc. Vertical: placing of stairs, elevators, etc. (see also 729.391 Stair design)

.26 Axial lines Lines of vista

.27 Accenting

729.3 Elementary forms (design)

For construction of these forms see 721. See also 711.65 Architectural details in City planning, also general note under 729

.31 Walls Mural decoration

For special types of mural decoration see numbers for those types; for wall construction see 721.2

.311 General questions

.312 Types of walls

May be divided like 721.29, e.g. 729.3122 Partitions

.313 Pane work Paneling

Horizontal and vertical divisions, bay division

.315 Bases Courses

For scope see note under 721.25

.317 Entablatures Crowning courses

May be divided like 721.27, e.g. 729.3176 Parapets. See also 729.392 Stair parapets

.318 Moldings

.32 Columnar structures

For construction see 721.3

.321 General questions

Proportions; taper, entasis, etc.

For scope of following 3 heds sce notcs under 721.372–.374

.322 Piers Pilasters

.323 Columns Colonnets

.324 Posts

.325 Columniation Intercolumniation

Accouplement, coupld columns, etc.

.326 Orders

Classic orders (Greek, Roman): Tuscan, Doric, proto-Doric, Ionic, proto-Ionic, Corinthian, composit (see also 722.6–.8 Classic architecture). Atlantean, Caryatic, Telemonic or Persian ordcrs; colossal, miniature and individual orders. The orders in special architectural stiles. Superimposition, supercolumniation, basement, attic, etc. orders

.327 Colonnades Pilastrades

For scope see note under 721.263. See also 729.392 Stair balustrades

.328 Columnar details and divisions

For scope see note under 721.38

.329 Other topics

.33 Arches Arcades

For scope of following subdivisions see notes under 721.41–.42

.331 General questions

.332 Arches according to form

Circular, pointed, poligonal, etc.

729.333 Arches according to architectural stiles
2–4 may be divided like 722–724, e.g. 729.333342 English Romanesque arches
.334 Arcades Arcuation
For scope see note under 721.262
.335 Arches according to position
.336 " " " function
.337 " " " construction
.338 Details Divisions
.339 Other topics
.34 Vaults Domes
For construction see 721.43–.47
.341 General questions
.342 Domes Cupolas
For scope see notes under 721.46–.47. See also 729.352 Domical and cupolated roofs

For scope of following subdivisions see notes under 721.43–.45
.343 Vaults according to form
Cylindric, pointed, poligonal, etc.
.344 Groind vaults
.345 Tunnel and expanding vaults
.346 Rib and fan vaulting
.347 Vaults according to construction
.348 Details Divisions
Drums, tambours; pendentivs; niches, mihrabs (see also 729.912 Altar tabernacles). Other details as in note under 721.428
.349 Other topics
.35 Roofs Roof structures
For construction see 721.5. See also 729.21 Roof plan
.351 General questions
.352 Forms
Gable, ridge, span or double-pitcht roofs (see also 729.37 Wall gables); domical and cupolated roofs (see also 729.342 Domes). For other forms included here see notes under 721.58–.597
.355 Roof openings Roof windows
May be divided like 721.55, e.g. 729.3553 Dormers
.356 Decorativ fixtures
May be divided like 721.56, e.g. 729.3564 Roof cornices
.357 Spires and other roof structures
May be divided like 721.57, e.g. 729.3573 Steeples; but elas domed or cupolated roofs in 729.352
.358 Chimneys
Various types: roof, wall, etc.; stack chimneys; chimney shafts, hoveling, pots, etc. For construction see 693 Masonry construction, 697.8 Smoke flues and chimneys

729.36 Towers
For construction see 725.97
.361 General questions
.363–.367 may be divided like 725.973–.977
E.g. 729.367 Turrets
.37 Gables Pediments
Wall gables. For scope see note under 721.28. See also 729.352 Gabld roofs
.38 Openings and their fittings
.381 General questions
.383 Doors
May be divided like 721.83, e.g. 729.3835 Posterns
.384 Windows
Fenestration, lighting. 3–8 may be divided like 721.843–.848, e.g. 729.3845 Oriels. See also 729.21 Lighting plans
.386–.389 Inclosures Gratings, guards Fastenings, etc.
Divided like 721.86–.89, e.g. 729.3866 Balconies
.39 Other
.391 Stairs Ramps
Elevators, escalators. For mathematics of stairbilding see 515.83. See also 694.8 Stairbilding, 717.88 Steps, ramps, perrons, etc. in Landscape architecture, 729.25 Plan of vertical circulation
.392 Stair balustrades and parapets Handrails
See also 729.3176 Wall parapets, 729.327 Colonnades
.393 Perrons
.4 Painted decoration
Painted ornament, policromy. See also 698.1 House painting, 729.7 Mosaic, 751 Painting
.41 Plant or vegetable forms
Natural and conventionalized forms; flowers, fruit, seed, stems, leavs, foliage, roots, etc.
.42 Animal and human forms
Natural and conventionalized
.422 Animal forms
.423 Human "
.424 Mythologic figures
.43 Grotesk forms Arabesks
Fanciful forms
.432 Grotesks
.433 Arabesks

729.44 Conventional and geometric forms
.45 Painted moldings
.46 " entablatures, crowning courses, panels
Painted architraves, friezes, cornices, attics, parapets, copings, fractables, etc. See also 729.483 Painted caissons, 729.485 Painted lacunars
.47 Painted columnar structures
May be divided like 729.32, e.g. 729.477 Painted colonnades
.48 Painted ceilings and archt structures
.481 General questions
.482 Arches Arcades
.483 Vaults Vaulted ceilings
Caissons; see also 729.46 Painted panels
.484 Domes Domed ceilings
.485 Nonvaulted ceilings
Lacunars; see also 729.46 Painted panels
.486 Archivolts
.487 Timpanums
.488 Details Divisions
For scope see notes under 721.428 and 729.348
.489 Other topics
.49 Other painted ornament
.492 Walls Mural painting
Bases, courses (for scope see note under 721.25); wall gables, pediments
.493 Roofs Roof structures
5–8 may be divided like 729.355–.358
E.g. 729.4938 Painted chimney pots
.494 Doors Windows Gratings
Guards, plates, scutcheons, fastenings, hinges, doorknobs, knockers, etc. See also 729.8 Ornamental glas
.495 Stairs Stairways Balustrades
1–3 may be divided like 729.391–.393
E.g. 729.4953 Painted perrons
.498 Special materials
May be divided like 691, e.g. 729.4981 Painted woodwork

729.5 Decoration in relief Tracery
Carvd and sculptured decoration and ornament. Divided like 729.4; e.g. 729.532 Gargoyles, 729.5987 Ironwork. See also 721.563 Roof reliefs, 729.88 Window tracery, 730 Sculpture, carving
.6 Incrustation Veneering
.61 Of exteriors
In brick, stone, marble, tiles, etc. May be divided like 691, e.g. 729.612 Stone
.62 Of interiors
May be divided like 691, e.g. 729.624 Tiles
.63 Inlay work
Intarsia, tarsia, sgraffito, marquetry, buhlwork, scagliola, etc. See also 729.7 Mosaic
.64 Niellowork
.65 Enamel decoration
See also 738.4 Enamels
.66 Damaskeening
.67 Veneering Burl work
.68 Lacker work
.69 Other
.7 Mosaic
See also 729.4 Painted decoration, 729.63 Inlay work, 729.85 Mosaic windows, 738.52 Mosaics in general
.71 Mosaic ceilings
.72 " walls
.73 " floors Parquetry
See also 721.66–.67 Floor coverings, 747.4 Floors in Interior decoration
.74 Other mosaic structures
Roofs, etc.
.75 Mosaic materials
Wood, glas, etc. May be divided like 691, e.g. 729.756 Glas
.76 Special mosaic designs
Sectil (cut in regular shapes), tessellated, checkerd, Alexandrian; vermiculated, cosmati work, Roman, Florentine, etc.

729.8 Ornamental glas design Window tracery

For tecnical processes see 666.1; history 748. See also 729.494 Painted windows

.81 Geometric staind glas windows
.82 Medallion " " "
.83 Canopy " " "
.84 Figure " " "
.85 Mosaic " " "

See also 729.7 Mosaic decoration in general

.86 Other kinds of staind glas
.87 Grisaille glas windows
.88 Window tracery Leded windows

Gothic; plate; bar; geometric; flowing or flamboyant; net or reticulated, branch, stump; perpendicular, etc. tracery. See also 729.5 Decoration in relief

.89 Other glas design

.9 Architectural accessories Fixt and built-in furniture

See also 749.4 Fixt furniture in Decorativ arts and design

.91 Sacramental furniture
.911 General questions
.912 Altars

High, side, etc. altars; altar tables, credences; communion tables. Details and divisions: mensa, altar slab or board; sepulcher, altar cavity, ambries; Easter sepulcher; tabernacle (see also 729.348 Niches); predella, altar steps and ledge; retable; altar desk, etc. See also 729.934 for Canopies, 729.962 Reredoses, 729.968 Altar rails

.913 Fonts Font basins

Font covers; baptismal fonts; benetiers, pilas, stoups, holy water basins

.914 Piscinas
.916 Confessionals
.917 Altar communion rails

See also 729.968 Communion rails in general

.92 Rostral furniture

Ambos, ambones; pulpits, tribunes, mimbars; lecterns, reading desks (see also 729.936 Reading stalls); clerks desks; prayer desks, priedieus, etc.

729.93 Seats Canopies
.931 General questions
.932 Dais
.933 Thrones

Ecclesiastic, bishops thrones; monarchic

.934 Canopies

Of solid materials only, not including those composed of textil fabrics. Baldachins, ciboria, peristeria, etc. See also 721.867 Canopy porches

.935 Stalls Common seats

Choir stalls (for clergy, acolites, choristers), miserere; sedilia, priests stalls, pews (see also 729.936 Reading pews), benches, theater and orchestra seats or stalls, etc.

.936 Reading stalls or pews

See also 729.92 Lecterns, 729.935 Pews in general

.937 Confessional boxes
.94 Buffets Cupboards

Sideboards; bars; built-in shelving, etc. for dishes, plate, books, etc.; dish and plate cupboards, bookcases

.95 Fireplaces

Mantels, chimney and mantelpieces, chimney hoods; mantelshelvs and boards; chimney corners and seats, ingle nooks; hearths, hearthstones; overmantels, etc. For construction see 697.1

.96 Screens Railings Percloses

See also 721.292 Partitions, 721.875 Window screens

.961 General questions
.962 Ecclesiastic screens

Chancel, choir, sanctuary screens: rood screens, jubes, iconostases, haikal screens; altar screens; reredoses; pardon, organ, chapel, baptistry, etc. screens

.963 Mortuary and tomb screens
.964 Domestic screens
.968 Railings

Altar, chancel, communion, etc. rails (see also 729.917 Communion rails as parts of altars)

.97 Organ cases
.98 Lighting fixtures

Lusters, chandeliers; girandoles, candelabrums; wall brackets, sconces, appliqués, etc. See also 749.63 Artistic lighting fixtures in general design

.99 Other

730 Sculpture Plastic arts

See also 718 Cemeteries, monuments, 721.563 Roof reliefs, 726.8 Mortuary architecture, 729.5 Architectural decoration in relief, 745–749 Industrial decoration and design; also special applications, e.g. 712.35 Use of models and modeling in Landscape architecture. For form divisions see Table 2 after Relativ index

731 General questions

Materials, methods, etc.

SUMMARY

731.1	Composition Design	.5	Representation stiles and methods
.2	Materials Mediums	.7	Types of sculptured objects by purpose and form
.3	Equipment	.8	Subjects represented
.4	Tecnic		

.1 Composition Designs for sculpture

.2 Materials Mediums

Sculpture according to materials used. For ivory, bone, shel, etc. see 736.6, ceramic materials 738, metals 739

.21 General questions

.22 Wood

See also 694.6 Joinery, 736.4 Wood carving, 745.51 Wood work in Arts and crafts, 749 Artistic furniture

.23 Natural stone

May be divided like 553.5, e.g. 731.231 Marble. For pointing, stone cutting see 731.46, stone carving 736.5

.24 Artificial stone Concrete

.25 Plastic materials

.251 General questions

.252 Clay and similar earthy materials

Clay modeling. Plastilina, plastine; pâte plastique, plasticin; plaster; plaster of Paris, gesso duro, etc. See also 731.26 Earthy minerals, 738 Ceramic arts

.253 Wax Ceroplastics

Cire perdue, waste or lost wax process; wax figures, colord, costumed; paraffin, etc. See also 746.8 Wax work, wax flowers

.254 Snow

.255 Soap

Including soap carving

.256 Butter

.257 Salt, flour and water

.258 Papier maché

.259 Other

731.26 Earthy minerals

May be divided like 553.6, e.g. 731.263 Alabaster; but clas sculpture and modeling in clay and similar earthy materials in 731.252

.27 Composit sculpture

Sculpture in more than 1 type of material. Chrisele-fantin, gold and ivory (see also 736.62 Ivory work, 739.22 Goldsmithing); acrolithic, wood and stone; etc.

.28 Coloring materials

Colord sculpture; policrome sculpture; patina, patinating. For use of color by ancient classic sculptors see 733.128

.29 Other materials

.3 Equipment

Furniture: framework, irons, armatures, butterflies; clay-boxes, stools, stands, platforms, lights, etc. Tools: hammers, prizing tools, chisels, boasters, gouges, claw or tooth tools, round-nosed tools, sharps, etc. Machines; protectors, wrap-ping cloths, syringes; models, etc.

.4 Tecnic

For coloring see 731.28

.41 General questions

.42 Modeling

.43 Molding

.44 Stamping

.45 Casting

.46 Pointing Stone cutting

See also 736.5 Stone carving

.47 Firing Baking

.48 Restoration of sculptures

.49 Other

.5 Representation stiles and methods

.52 Stiles

Grotesk, idealistic, naturalistic, realistic, etc. Period and national stiles ar clast under period and country numbers, e.g. Classic 733, Gothic 734.25

.53 In the round

.54 Reliefs

High, half, low and hollow relief. Special applications of relief: portals, doors, friezes, monumental reliefs (see also 731.76 Monuments). See also 698.8 Relief work in building, 729.5 Architectural decoration in relief, 736 Carving

.7 Types of sculptured objects by purpose and form

.72 Decorativ uses

Vases (sculptured only; for vases in general see 738.38), etc. For candelabrums see 749.63

.73 Statues

May be divided like 704.94, e.g. 731.7332 Animal statues

731.74 Busts
.75 Masks
.76 Monuments
Public, religious, sepulcral: mausoleums, sarcofagi, effigies, incized slabs, gravestones (see also 726.82 Sepulcral architecture). See also 718.66 Monuments in cemeteries, 731.54 Monumental reliefs. For monumental brasses and bronzes see 739.51–.52

.8 Subjects represented
May be divided like 704.94, e.g. 731.86 Symbolic sculptures

732 Ancient sculpture

.1 General questions
Materials, methods, etc. May be divided like 731, e.g. 732.14 Tecnic

.2 Primitiv
See also 571.73 Sculptures in Archeology

.3–.9 By country and period of origin
.3–.6, .9 divided like 933–936, 939, e.g. 732.55 Ancient Persian sculptures: .7 Chinese, .8 Egyptian. For Greek and Roman sculpture see 733

733 Classic or Greek and Roman sculpture
.1 General questions
Materials, methods, etc. May be divided like 731, e.g. 733.128 Colord sculpture
.3 Greek sculpture
.31 General questions
Materials, methods, etc. May be divided like 731, e.g. 733.314 Greek sculptural tecnic
.38 By period and locality of origin
Divided like 938; e.g. 733.3805 Greek sculptures of the Peloponnesian war, 431–404 B.C., 733.385 Athenian sculptures
.5 Roman sculpture
.51 General questions
Materials, methods, etc. May be divided like 731, e.g. 733.514 Roman sculptural tecnic
.57 By period and locality of origin
Divided like 937; e.g. 733.5702 Sculptures of the Roman republic, 509–31 B.C., 733.575 Etruscan sculptures

734 Medieval sculpture

.1 General questions
Materials, methods, etc. May be divided like 731, e.g. 734.14 Medieval sculptural tecnic

734.2 Stiles
.24 Romanesque
.25 Gothic

.4–.9 Clast by country and period of origin
Divided like 940–999, e.g. 734.4202 English sculpture during the Norman period, 1066–1154

735 Modern sculpture

.1 General questions
For materials and methods see 731

.2 Stiles
May be divided like 724, e.g. 735.21992 Baroque sculptures

.4–.9 Clast by country and period of origin
Divided like 940–999, e.g. 735.42081 English Victorian sculptures

736 Gliptics Carving

For soap carving see 731.255, coins and medals 737. See also 417 Inscriptions, 731.54 Reliefs, 739.2 Work in precious metals, 745–749 Industrial decoration and design

SUMMARY

736.1	General questions	.6	Ivory, horn, bone, etc. carving
.2	Gems	.7	Fans, carving and painting
.3	Seals Stamps Signets	.8	Hallmarks
.4	Wood carving	.9	Other
.5	Stone "		

.1 General questions
Carving of special objects, etc.

.2 Gems
Cameos, intaglios, scarabs, jade, jet, etc. Special stones: diamonds, rubies, etc.

.3 Seals Stamps Signets
See also 929.8 Coats of arms, crests
.31 General questions
.32 Materials
.33 Equipment
.34 Tecnic
Designs, dies, diesinking, matrix, seal and counterseal, obverse and reverse, impression, etc.
.36 Seals clast by form
Disk, cylinder, etc.
.37 Seals clast by institutions or persons
Seals of chief rulers: sovrens, presidents, etc. Feudatory, national, state or local seals. Seals for special occasions; of organizations, corporations, civil and religious societies; personal seals, etc.

731.74 Busts
.75 Masks
.76 Monuments
Public, religious, sepulcral: mausoleums, sarcofagi, effigies, incized slabs, gravestones (see also 726.82 Sepulcral architecture). See also 718.66 Monuments in cemeteries, 731.54 Monumental reliefs. For monumental brasses and bronzes see 739.51–.52

.8 **Subjects represented**
May be divided like 704.94, e.g. 731.86 Symbolic sculptures

732 Ancient sculpture

.1 **General questions**
Materials, methods, etc. May be divided like 731, e.g. 732.14 Tecnic

.2 **Primitiv**
See also 571.73 Sculptures in Archeology

.3–.9 **By country and period of origin**
.3–.6, .9 divided like 933–936, 939, e.g. 732.55 Ancient Persian sculptures: .7 Chinese, .8 Egyptian. For Greek and Roman sculpture see 733

733 **Classic or Greek and Roman sculpture**
.1 General questions
Materials, methods, etc. May be divided like 731, e.g. 733.128 Colord sculpture
.3 Greek sculpture
.31 General questions
Materials, methods, etc. May be divided like 731, e.g. 733.314 Greek sculptural tecnic
.38 By period and locality of origin
Divided like 938; e.g. 733.3805 Greek sculptures of the Peloponnesian war, 431–404 B.C., 733.385 Athenian sculptures
.5 Roman sculpture
.51 General questions
Materials, methods, etc. May be divided like 731, e.g. 733.514 Roman sculptural tecnic
.57 By period and locality of origin
Divided like 937; e.g. 733.5702 Sculptures of the Roman republic, 509–31 B.C., 733.575 Etruscan sculptures

734 Medieval sculpture

.1 **General questions**
Materials, methods, etc. May be divided like 731, e.g. 734.14 Medieval sculptural tecnic

734.2 **Stiles**
.24 Romanesque
.25 Gothic
.4–.9 **Clast by country and period of origin**
Divided like 940–999, e.g. 734.4202 English sculpture during the Norman period, 1066–1154

735 Modern sculpture

.1 **General questions**
For materials and methods see 731

.2 **Stiles**
May be divided like 724, e.g. 735.21992 Baroque sculptures

.4–.9 **Clast by country and period of origin**
Divided like 940–999, e.g. 735.42081 English Victorian sculptures

736 Gliptics Carving

For soap carving see 731.255, coins and medals 737. See also 417 Inscriptions, 731.54 Reliefs, 739.2 Work in precious metals, 745–749 Industrial decoration and design

SUMMARY

736.1	General questions	.6	Ivory, horn, bone, etc. carving
.2	Gems		
.3	Seals Stamps Signets	.7	Fans, carving and painting
.4	Wood carving	.8	Hallmarks
.5	Stone "	.9	Other

.1 **General questions**
Carving of special objects, etc.

.2 **Gems**
Cameos, intaglios, scarabs, jade, jet, etc. Special stones: diamonds, rubies, etc.

.3 **Seals Stamps Signets**
See also 929.8 Coats of arms, crests
.31 General questions
.32 Materials
.33 Equipment
.34 Tecnic
Designs, dies, diesinking, matrix, seal and counterseal, obverse and reverse, impression, etc.
.36 Seals clast by form
Disk, cylinder, etc.
.37 Seals clast by institutions or persons
Seals of chief rulers: sovrens, presidents, etc. Feudatory, national, state or local seals. Seals for special occasions; of organizations, corporations, civil and religious societies; personal seals, etc.

736.4 Wood carving
Scroll work. See also 731.22 Wood sculpture, 745.51 Wood work in Arts and crafts, 749 Artistic furniture

.46 Pyrografy
Including pyrografy on lether. See also 745.53 Artistic lether work in general

.5 Stone carving
See also 731.23 Natural stone sculpture in general, 731.46 Stone cutting

.6 Carving of ivory, horn, bone and similar materials
See also 745.55 Ivory, etc. in Arts and crafts

.61 General questions
.62 Ivory
See also 731.27 Chriselefantin work
.63 Horn
.64 Bone
.65 Shel
.67 Amber
.68 Netsukes

.7 Fans, carving and painting
See also 391.4 Costume accessories

.8 Hallmarks
See also under special materials, e.g. 738.88 Potters' marks

.9 Other

737 Numismatics Medals Coins

Artistic and historical aspects. See also 332.4 Coins and coinage, as money, 351.822 Coinage and money in legislation, 417 Epigrafy, 736 Gliptics, seals, 745–749 Industrial decoration and design, 760 Engraving

SUMMARY

737.1	General questions	.3	Counters Tokens
.2	Medals Medallions	.4	Coins

.1 General questions

.2 Medals Medallions
Objects of art commemorativ of an event, fact or individual. Decorations; military medals (see also 355.134 Military insignia); medals of award: prizes, competitiv, shooting, school and scholarship medals, etc.; medals, plaques or insignia establishing identity of agents, professional medals, lodge insignia; talismans, amulets, curativ medals, etc.

737.3 Counters Tokens Jettons
Counters or markers ar money of account. Fees of presence. Mint counters or token money. Legal tender. May be divided like 737.,4 e.g. 737.34 Tecnic, designing, etc.

.4 Coins

.41 General questions
.42 Coins clast by material
Iron and steel, precious metals, etc.; wood, lether and other nonmetallic money
.43 Equipment
Tools, machines, dies
.44 Methods of manufacture Tecnic
Designing. Casting. Repoussé process. Coining or minting. Valuation and rating of bullion, recovery of values from mint 'sweep', assaying melted bars, pixing, telling, etc.
.46 Coins clast according to size and pattern
Size, weight, shape, type or device, legend, inscription, etc.
.47 Coins clast according to issuer or use
Siege or obsidional money; coins of religious orders, bishops, etc.; export money, coins used as ornaments, etc. For scope of this number see 736.37

738 Ceramics Porcelain Pottery

Clas here only studies relating to the art; tecnologic studies on ceramics ar clast in 666. See also 571 Prehistoric archeology, 731.252 Clay modeling, 745–749 Industrial decoration and design

SUMMARY

738.1	General questions	.5	Mosaics Ornamental stones
.2	Porcelain Chinaware	.6	Baked clay Terra cotta
.3	Pottery Stoneware	.8	Special ceramic objects
.4	Enamels		

.1 General questions

.12 Ceramic materials
General discussions
.13 Equipment Tools
.14 Tecnic Processes
Modeling, casting, glazing and enameling (see also 738.4 Enamels), firing, baking, etc.
.15 Decoration
Ceramic painting (see also 751 Painting in general) photoceramics, transfer printing; graffito decoration; slip or barbotin decoration, etc.

738.2 Porcelain Chinaware
Dishes, tableware, etc.
.21 General questions
.212–.214 like 738.12–.14
E.g. 738.214 Tecnic
.22 Decoration
China painting, etc.
.23 Biscuit or unglazed ware
.24 Glazed
.25 Hard
.26 Soft
.27 Special varieties
Armorial china, Dresden or Meissen, Sèvres, etc.
.28 Special articles
.29 Other topics
.3 Pottery Stoneware Earthenware
.31–.32 like 738.21–.22
E.g. 738.32 Pottery painting
.33 Stoneware Grès
Vitreous or salt glazed, etc.
.34 Earthenware Crockery
Soft: unglazed, lustrous; hard: glazed (led, ledless), enameld (see also 738.4 Enamels)
.37 Special varieties
Delft, Faience, Majolica, Wedgwood, etc.
.38 Special articles
Jars, jugs, pitchers, vases (Portland vase), etc. Use as general number for vases. Vases may also be clast by process (e.g. 731.72 Sculptured vases), by material (e.g. 738.28 China vases), by use (e.g. 749.75 Vases as artistic furniture), etc.
.4 Enamels
See also 729.65 Architectural decoration in enamel, 738.14 Enameling, 738.34 Enameld earthenware
.41–.42 like 738.21–.22
E.g. 738.42 Painting enamel ware
.43 Opaque enamels
Champlevé, incized, Cloisonné, etc.
.44 Basse-taille Transparent enamels
.45 Incrusted or inlaid enamels
Miniature enameling

738.46 Enameld lava, slag or scoria
.47 Special varieties
.48 " articles
.49 Other topics
.5 Mosaics Ornamental stones
.52 Mosaics
See also 729.7 Use of mosaics in Architecture
.53 Ornamental stones
.6 Baked clay Terra cotta
Artificial stone. For clay modeling see 731.252
.62 Ornamental brick
.63 " tile
Ornamental casings, storied and pictorial tiles
.8 Special objects in pottery and ceramics
.82 Ceramic stoves
.83 " lighting fixtures
Lamps, candlesticks, etc. See also 749.63 Artistic lighting fixtures in general
84 Ornamental ceramic figures
Statuets, Tanagra figurines, etc.
.85 Ceramic braziers
.88 Marks (potters' marks)

739 Metal arts Bricabrac
See also 671 Metal manufactures, 745–749 Industrial decoration and design

SUMMARY

739.1	**General questions**	**.4**	**Ironwork**
.2	**Work in precious metals**	**.5**	**Other metalwork**
.3	**Artistic horology**	**.7**	**Armor work**
		.8	**Bricabrac**

.1 General questions
.13 Equipment Tools
.14 Tecnic Processes
Modeling, metaloplasty, molding, stamping, casting, forging

739.15 Decoration
Coloring, painting, enameling; hammering, beating, repoussé; chasing, incrusting, niello, etc.
.18 Special articles
.2 Work in precious metals
See also 671 Precious metals manufactures, 736 Gliptics
.21 General questions
.212 Alloys and other materials
.213–.215 like 739.13–.15
E.g. 739.215 Decoration
.217 Special varieties
Sheffield, etc.
.218 Special articles
2 Religious, ecclesiastic articles
See also 247 Sacred vessels and ornaments
3 Tableware Plate
4 Receptacles
Boxes, cups, vases, etc.
8 Marks

Each of following, 739.22–.24, may be divided like 739.21, e.g. 739.2283 Gold plate
.22 Goldsmithing
See also 731.27 Chriselefantin work
.23 Silversmithing
.24 Platinum work
.27 Jewelry
Rings, necklaces, pendants, bracelets, brooches, clasps, chains, earrings, diadems, aigrets, crescents, garter buckles, mounted stones and perls, etc. May be divided like 739.1 with 739.272 Materials: alloys, etc. See also 391.7 Jewelry as costume
.3 Artistic horology
Artistic watchcases, pendulums, chimney or mantle clocks. May be divided like 739.1 & .27; e.g. 739.32 Materials, 739.35 Decoration. See also 681.11 Watch and clock making, 749.74 Artistic clock cases

Numbers for each of the following types of metal work in 739.4–.58 may be divided like 739.21; but note special subdivisions under Copper work 739.51–.52 and Tin and pewter 739.53, each of which may be divided like 739.21; e.g. 739.45 Decorativ hammering of ironwork, 739.5125 of art bronzes
739.4 Ironwork
Ornamental work with iron, cast or wrought, and steel. Forging, beating, hammering. Grils, doors, balcony motifs, imposts, knockers, balustrades, ornamental nails, etc. See also 672 Iron and steel manufactures
.5 Other metals
.51 Copper work Copper ware
.511 General questions
.512 Art bronzes
Cases and boxes, settings for furniture, toilet articles, etc.; glided bronzes
.52 Bras Bras ware
Monumental bras
.53 Tin Pewter
.532 Tin ware
.533 Pewter ware
.54 Led work
.55 Zinc "
.56 Nickel
.57 Aluminum
.58 Chromium
.59 Other
.7 Armor work
Arms and armor. Ancient armor. Trofies of arms. From point of view of ornamentation of arms only. For manufacture see 623.4 and 683; for use see 355. See also 399 War customs
.71 General questions
.72 Side arms
Sabers, swords, daggers, lances, poignards, dirks, bayonets, etc.
.73 Missal wepons
Crosbow, longbow, arrows, etc.
.74 Firearms
Portable or light: muskets, guns, pistols, revolvers, etc.; nonportable or hevy: artillery, cannon, howitzers, etc.
.75 Defensiv arms
Armor, cuirass, helmet, shield, etc.
.8 Bricabrac
Art curiosities and knick-knacks; ephemeral art objects

740 Drawing Decoration Design

See also special applications, e.g. 659.1323 Pictorial advertizing. For form divisions see Table 2 after Relativ index

741–744 Drawing

See also 751 Painting

741 Freehand drawing Illustration Caricatures Cartoons

Collections on any subject go with that subject with reference from 741

SUMMARY

741.1	General questions	.6	Illustration Drawing for reproduction
.2	Mediums Drawing instruments	.7	Sketching Chalk talks Silhouets
.3	Equipment	.8	Other topics
.4	Tecnic	.9	Collections of drawings
.5	Caricatures		

.1 General questions

.2 Mediums Drawing instruments

Including under each methods of use

.21 General questions

.22 Charcoal

Charcoal and color, carbon pencil and chalk, stump drawing

.23 Chalk Crayon

Black, white, colord, pastels, sanguin or red, etc.

.24 Led pencil Plumbago

.25 Silver point

.26 Pen and ink

.27 Watercolor drawing Monocromes

.28 Direct oil drawing

.29 Other

.3 Equipment

Drawing surfaces, papers, bristol boards, etc.; erasers; coloring materials, pigments, watercolors; fixativs; furniture, drawing boards, supports, easels, boxes and cases for drawings, etc.; drawing accessories

.4 Tecnic

For perspectiv see 742, art anatomy see 743. But clas here discussions of tecnic in general. See also 751.4 Painting tecnic

.41 General questions

Elements, fundamentals. Good taste, appropriate medium, mood and character of subject to bc exprest, etc.

.42 General drawing methods

Drawing from nature, models and their use; drawing from imagination; use of photografs, etc.

741.43 Composition

.431 General questions

.432 Balance Proportion Symmetry

Obvious, occult, etc.

.433 Sequence Rithm

Of continuation or repetition, of alternation, of graduation or progression, etc.

.434 Harmony

By continuation, repetition, recurrence; by value contrasts; by color contrasts and intensities; by mesure, shape, variety, etc.

.44 Line Outline

Straight lines, angles, curvs, spirals, etc. Freehand drawing of natural forms; drawing and modeling of solid objects: in line, silhouet (for silhouets in general see 741.7), shade and shadow, local color and surface, etc. For figure drawing see 743

.45 Light and shade Chiaroscuro

Effect on artist's conception. Characteristics of objects: light, chromatic and achromatic sensations, brightness, high lights. Reflections and reflecting power. Shadow and cast shadow, shadow projection. Values, mesurement of brightness, influence of color, light and color values, etc. See also 742 Perspectiv

.5 Caricatures Cartoons

Grotesk and satiric drawing. Mediums, methods. Types: political, etc. For special purposes: newspapers, magazines, books, etc. Caricatures and cartoons of special individuals ar preferably clast in biografy 920. See also 741.6 Drawing for reproduction; also special applications, e.g. 659.1323 Cartoons in Advertizing

.58 Moving picture cartoons

See also 778.58 Drawn moving picture films

.6 Illustration Drawing for reproduction

See also 741.5 Caricatures, cartoons, 744.5 Reproduction of drawings

.61 General questions

Principles, elements

.62 Clast by mediums

May be divided like 741.2, e.g. 741.626 Pen and ink illustration

.63 Clast by subject

May be divided like 704.94, e.g. 741.634 Buildings

.64 Book illustration

.642 Children's books

.644 Book covers

.65 Magazine illustration

.66 Newspaper "

741.67 Commercial advertizing Posters
See also in Advertizing 659.1323 Illustrations, 659.134 Posters
.68 Greeting cards, calendars, etc.
.69 Other topics
.7 Sketching Chalk talks Silhouets
Blackboard drawing
.8 Other topics
.9 Collections of drawings
.91 By artist
.92 " school
.93–.99 by place and time of origin, divided like 930–999
E.g. 741.9732 Collections of American colonial drawings

742 Perspective Scenografy

See also 515.6 Perspectiv geometry, 741.45 Light and shade, 744.45 Projections

.1 General questions
Picture-plane, perspectiv plane or plane of delineation; reference points, etc.
.2 Plane perspectivs
For pictures on flat surfaces
.3 Curvilinear perspectivs
For pictures on curvd surfaces. Cylindric or panoramic perspectivs (for pictures on concave surfaces), spheric perspectivs
.4 Linear and conic perspectivs
Parallel or 1-point, angular or 2-point, diagonal, oblique or 3-point perspectivs
.5 Aerial perspectiv Skiagrafy
.6 Distortions and corrections
.8 Special viewpoints
Bird's-eye perspectiv, etc.

743 Art anatomy Life school Figure drawing

For tecnic of line and outline see 741.44. See also 573.6 Anthropometry, 611 Anatomy in general, 757 Painting of human figure

.1 General questions
.2 Action in art Pose Expression
.3 Types of representation
Actual (represents subject exactly); schematic; ideal conception or figure (constructed from mean proportion of several types)
.4 Human body
.41 General questions
Proportions of human body
.42 Racial studies
.43 Men
.44 Women

743.45 Children
.46 Skeleton
.47 Muscular system Ecorché
.49 Parts of the body
Regional anatomy. May be divided like 611.9, e.g. 743.491 Hed
.5 Draperies
.6 Animal life
.61 General questions
Proportions, skeleton, muscular system, etc.
.62–.69 Special animals
Divided like 592–599, e.g. 743.682 Birds
.7 Plant life
.71 General questions
.72 Trees
.73 Fruit Berries
.74 Vegetables
.75 Grains Seeds
.76 Flowers
.77 Weeds
.78 Special plants
.783–.789 may be divided like 583–589, e.g. 743.78337 Roses
.79 Special parts of plants
Leavs, stems, roots, etc. May be divided like 581.49, e.g. 743.797 Leavs

744 Mathematical and scientific drawing Mecanical drawing

Instructions for architectural and mathematical drawings, with demonstrations (if any) subsidiary. See also 515 Descriptiv geometry and projections (which prefer for textbooks with mathematical demonstrations in scientific order), 621.71 Drafting room in Engineering

SUMMARY

744.1	General questions	.4	Procedure Tecnic
.2	Drafting studios	.5	Reproduction of drawings
.3	Furniture Instruments Materials	.8	Storage Preservation and protection

.1 General questions
.2 Drafting studios
Location and arrangement; organization and routing of work; drafting studio practis

744.3 **Furniture Instruments Materials**

Drawing boards, tables; compasses and dividers, drawing pens and pencils, rulers, squares, triangles; instruments for drawing curvd lines: ellipsograf, French curvs, splines, etc. Universal drafting machine, pantagraf or pantograf, omnigraf, scales, protractors. Paper, inks, erasers, shields, soapstone and other accessory materials for linear drawing design

.4 **Procedure, methods and conventional rules of drafting**

.41 General questions

.42 Types of mathematical and scientific drawing

Sketches; mecanical, architectural, structural, working and contract drawings; display and competitiv drawings, etc.

.428 Map drawing

Topografic maps, etc. Scale, north-point, etc. See also 526.8 Map projection

.43 Special procedure and methods of executing drawings

Rules and conventions for using different strokes and colors. Rules of procedure, representation, dimensioning, specifications, lettering, titling, checking, etc.

.44 Instructions in execution, mounting, etc.

.45 Projections

Orthografic, isometric, oblique, cavalier, cabinet, clinografic, spheric, etc. For perspectiv projections see 742. See also 515 Descriptiv geometry

.5 **Reproduction of drawings**

See also 741.6 Drawing for reproduction

.51 General questions

.52 Tracings for reproduction

.53 Mecanical means of reproduction

See also 778.12 Direct and camera copying

.532 Blueprints

Blueprint reading. See also in Photografy 772.22 Blueprint processes

.533 Photostats

.54 Reduction

.55 Enlargement

.58 Corrections on reproductions

.8 **Storage Preservation and protection**

Files for drawings, tracings, reproductions; frames and protectiv coverings; etc. See also 025.177 Library treatment of art material

745–749 Industrial decoration and design

Clas here discussions dealing with these subjects from artistic side in a general way or when not more specifically provided for elsewhere. See also in Relativ index references under Decoration, Furniture, Lighting. For related material see

090	Book rarities	730	Sculpture
391	Costume	736	Gliptics
600	Industrial arts	737	Numismatics
652	Writing	738	Ceramics
655	Printing and publishing	739	Metal arts
		760	Engraving
720	Architecture	790	Amusements Hobbies

SUMMARY

745 Arts and crafts Design

- .1 General questions
- .2 In industry
- .3 " the home
- .4 Design
- .5 Arts and crafts by materials used
- .6 Ornamental lettering
- Heraldic design
- .7 Transfer pictures
- .8 Composit representations
- .9 Other

746 Fanciwork Art needlework

- .1 General questions
- .2 Laces Tulles
- .3 Art tapestry
- Hangings
- .4 Needlework
- .5 Beadwork
- .6 Batik
- .7 Handmade rugs
- .8 Wax work
- .9 Other

747 Interior decoration

- .1 General questions
- .2 By country and period
- Stiles
- .3 Ceilings Walls
- .4 Floors Floor coverings
- .5 Upholstery Draperies
- .6 Furniture
- .7 Of special rooms
- .8 " " buildings
- .9 Special decoration, etc.

748 Glas Windows Mirrors Cristal

749 Artistic furniture Fixtures Ornaments

- .1 General questions
- .2 Stiles by country and period
- .3 Special articles of furniture
- .4 Fixt furniture
- .5 Special ornamental work
- .6 Heating and lighting fixtures
- .7 Ornaments

745 Arts and crafts Design

Comprehensiv title for arts of decorativ design and handicraft; all those which, in association with mother craft of building, go to making of the house beautiful. See also 747 Interior decoration; also special applications, e.g. 659.1324 Design in Advertizing

.1 **General questions**

Arts and crafts movement; revival of decorativ art

.2 **Arts and crafts in industry**

According to kind of work. May be divided as far as practicable like the whole classification, e.g. 745.2671 Arts and crafts in metal manufactures

745.3 **Arts and crafts in the home**
According to kind of work. May be divided as far as practicable like the whole classification, e.g. 745.3671 Metal arts and crafts in the home. See also 746 Fanciwork

.4 **Design**

.41 General questions

.42 Pure design
General principles, elements, composition

.43 Applied and decorativ design
General principles, elements, composition

.44 Stiles
Various motifs: arabesk, fantastic, geometric, grotesk, etc. Various cultures: primitiv, Jewish, Mohammedan, etc. Schools or periods: rococo, etc.

.5 **Arts and crafts clast by material used**
See also 635.9663 Use of flowers as ornamentation, 738 Ceramics, 739 Metal arts in general

.51 Woodworking
Cabinet work, marquetry, inlaying, mosaic (see also 747.33 Mosaic work in interior decoration), lackerd wood (see also 667.7 Lacker), etc. See also 674 Lumber manufactures, 684 Carriage and cabinet making, 694.7 Ornamental joinery, 731.22 Wood sculpture, 736.4 Wood carving, 736.46 Pyrografy, 749 Artistic furniture

.52 Textil arts
May be divided like 677 Textil manufactures; e.g. 745.5276 Passementerie. See also 745.58 Basketry, 746 Laces, tulles, tapestry hangings, batik, handmade rugs

.53 Lether Fur
Cordovan and furniture lethers; chased, embost, gofferd, gilded, etc. lethers; morocco work, etc. See also 675 Lether and fur manufactures, 685 Saddlery, shoemaking, etc., 686 Bookbinding, 736.46 Pyrografy

.537 Fur

.54 Paper
Decorated and painted papers, furniture papers, hanging or wall papers (see also 747.35 Wall coverings). Objects of paper and paper pulp. Artistic watermarks. For bookplates see 097. See also 676 Paper manufactures

.55 Ivory, horn, bone, shel, etc.
See also 736.6 Gliptics

.56 Metals
See also 671 Metal manufactures, 739 Metal arts in general

.57 Rubber and similar products Celluloid
See also 678 Rubber manufactures, 679 Celluloid manufactures

.58 Basketry
Raffia work, etc. See also 677.543 Basket weaving industries, 745.52 Textil arts

.59 Other

745.6 **Ornamental lettering Heraldic design**
Alfabets, cifers, monograms. See also 751 Painting

.66 Heraldic design
See also 929.6 Heraldry

.67 Manuscript illumination
See also 091 Manuscripts

.7 **Transfer pictures Decalcomania**
See also 747.94 Stencil decoration, 751 Painting

.8 **Composit representations**
Cycloramas, etc. See also cosmoramas, cycloramas, dioramas, panoramas in Relativ index

.9 **Other**

746 Fanciwork Art needlework
See also 745.3 Arts and crafts in the home, 745.52 Textil arts

.1 **General questions**

.2 **Laces Tulles**
See also 677.65 Lace and tulle manufactures

.3 **Art tapestry Hangings**
Cartoons for tapestries. Hangings of churches, museums, public buildings, etc. Bayeux, Gobelin, etc. tapestries. See also 677.64 Tapestry manufactures, 747.35 Wall coverings, 751 Painting

.4 **Needlework**
For basketry, raffia work see 745.58. See also 646.2 Domestic economy

.41 General questions

.42 Sewing Smocking

.43 Knitting Crochet Tatting
For crocheted rugs see 746.73

.44 Embroidery
Stitches, stamping designs. Cutwork, crewel work, drawnwork, hardanger, skeleton leavs, etc.

.444 Ecclesiastic embroidery
See also 247.7 Religious vestments, etc.

.445 Samplers

.45 Appliqué

.46 Ornamental quilting

.47 " patchwork

.48 Couching

.49 Other

.5 **Beadwork**
For passementerie see 745.5276

.6 **Batik**

.7 **Handmade rugs**
For artistic rugmaking in general, including oriental rug see 745.52 (745.52643)

.71 General questions

.72 Handwoven

746.73 Crocheted
For art crocheting in general see 746.43
.74 Hookt Puld
.8 **Wax work Wax flowers**
See also 731.253 Sculpture in wax
.9 **Other**

747 Interior decoration
See also 643–645 Home plan and furnishings in Home economics, 651.24 Office furnishings and decoration, 729 Architectural design and decoration, 745 Ornamental design, 749 Artistic furniture, 751 Painting
.1 **General questions**
.2 **Interior decoration by country and period Stiles**
Divided like 749.2, e.g. 747.211 American colonial interiors
.3 **Ceilings Walls**
.31 General questions
.32 Decorativ painting
Distemper, encaustic, frescoes, fretwork, policrome, etc. See also 751.73 Mural painting tecnic
.33 Woodwork Paneling Mosaic work
See also 745.51 Artistic woodwork and mosaic in general
.34 Friezes, moldings, etc.
.35 Wall coverings
Wall paper, tapestry. See also 745.54 Wall paper design, 746.3 Tapestry hangings in general
.4 **Floors Floor coverings**
See also 729.73 Mosaic floors
.42 Rugs Carpets
As elements in interior decoration
.5 **Upholstery Draperies**
Door and window furnishings; curtains, shades, etc. See also 747.6 Furniture in interior decoration, 749 Artistic furniture
.6 **Furniture**
In interior decoration only; for artistic furniture design see 749. See also 747.5 Upholstery
.7 **Decoration of special rooms**
May be divided like 645.6 Home furnishing, e.g. 747.77 Bedroom decoration
.8 **Decoration of special buildings**
Public buildings, churches, schools, etc.
.85–.88 may be divided like 725–728
E.g.747.86 Church decoration
.9 **Special decoration, etc.**
.92 Decorativ lighting Illumination
.93 Decoration for special occasions
Decoration with flowers in a church for weddings, funerals, etc.; decoration of a hall for a special event, etc.
.94 Stencil decoration
See also 745.7 Transfer pictures

748 Glas Windows Mirrors Cristal
Art of glaswork, glaziers art. See also 666.1 Glasmaking, 698.5 Glazing
.1 **General questions**
.2 **Prest glas**
.3 **Cutglas**
.4 **Painted and iridescent glas Favrile glas**
.5 **Staind glas in art Leded Mosaic**
See also 729.8 Use of staind glas in architecture
.6 **Etching on glas**
See also 767.2 Etching in general
.8 **Special articles of glas**

749 Artistic furniture Fixtures Ornaments
See also 645.4 General furniture in Domestic economy, 684 Furniture manufacture, 731.22 Wood sculpture, 736.4 Wood carving, 745.51 Arts and crafts in wood, 747 Interior decoration
.1 **General questions**
.2 **Stiles by country and period**
Including reproductions and revivals. For history and local treatment use 749.09 divided like 930–999
.21 American United States
.211 Colonial Early American –1800
.212 19th century
.213 20th "
.22 English
.221 Early English –1603
English Gothic (see also 749.241 Gothic in general) and Renaissance (see also 749.25 Renaissance in general); Tudor, Elizabethan
.222 Stuart 17th century 1603–1714
Jacobean, Commonwelth, Carolean, Restoration, William and Mary, Queen Anne
.223 Georgian 18th century 1714–1830
Adam brothers, Chippendale, Heppelwhite, Sheraton, etc.
.224 Victorian 19th century 1830–1901
.225 20th century
.23 German Austrian
.24 French
.241 Early French –1515
Gothic (elas here general works on Gothic furniture; see also 749.221 English Gothic, etc.); Louis 12
.242 French renaissance 1515–1610
16th century, Francis 1, Henry 2–4. See also 749.25 Renaissance in general
.243 17th–18 centuries
Louis 13–16; French baroque and rococo; Regency; Directoire

749.244 19th century
Empire, Napoleonic
.245 20th century
.25 Italian
Renaissance; clas here general works on renaissance furniture (see also 749.221 English renaissance, 749.242 French renaissance, etc.)
.26 Spanish Portuguese
.27 Slavic Russian
.28 Scandinavian
.29 Other
Divided like 930–999; e.g. 749.2937 Roman, 749.29493 Flemish
.3 Special articles of furniture
.31 Chairs Footstools
.32 Couches Settees Sofas Lounges
.33 Tables
.34 Desks
.35 Screens
.36 Beds
.37 Cushions, pillows, etc.
.38 Coffers Chests Trunks
.39 Other
.4 Fixt or built-in furniture
See also 729.9 Fixt furniture in Architecture
.5 Special ornamental work
Lacker work, marquetry, inlay, buhlwork, scrollsawing, fretwork, etc. See also 745.51 Artistic woodwork in general
.6 Heating and lighting fixtures
See also Heat, light, ventilation in Domestic economy 644, in Industrial plants 658.24–.25; 697 Heating and ventilation in Building construction, 739 Metal arts
.61 General questions
.62 Heating fixtures
Fireplaces, inglenooks, mantels, radiators, stoves, etc.
.63 Lighting fixtures
May be divided like 644.32, e.g. 749.636 Chandeliers. See also 738.83 Ceramic lighting fixtures, 729.98 Lighting fixtures in architecture
.7 Ornaments
.71 General questions
.72 Picture frames and framing
.73 Pictures
.74 Clock cases
See also 739.3 Artistic horology
.75 Vases
For vases in general see 738.38
.76 Statuary
See also 730 Sculpture

750 Painting

For form divisions see Table 2 after Relativ index

751 General questions
Materials, methods, etc. See also 729.4 Architectural painted decoration, 741–744 Drawing. See also in Relativ index entries for special articles, e.g. China painting

SUMMARY

751.2	**Materials**	**.5**	**Reproduction**
.3	**Equipment**	**.6**	**Preservation**
.4	**Tecnic**	**.7**	**Object and form of paintings**

.2 Materials
Including under each discussions of suitability and special problems of use
.21 General questions
.22 Surfaces Grounds
.221 General questions
.222 Wood Panels
.223 Stone Concrete Plaster
.224 Metals
May be divided like 669, e.g. 751.2241 Iron, steel
.225 Ivory, bone, horn, shel, etc.
.226 Ceramic materials Glas, etc.
May be divided like 666.1–.7, e.g. 751.2261 Glas
.227 Textils Canvas Fabrics
May be divided like 677, e.g. 751.2274 Silk
.228 Paper, etc.
Papirus, parchment, vellum, cardboard
.229 Other
.23 Pigments Paints
For tecnic of use see under 751.4 Water color, distemper, oil, etc. painting. For charcoal, crayons, pastels see 741.2 Drawing mediums. See also 667.6 Paint manufacture, 752 Color and coloring
.231 General questions
.232 Water-colors
Various forms and types: cakes, pastils, tubes; gouache and body colors, etc.
.233 Distemper or tempera colors
.234 Colord inks
India ink, sepia, etc
.235 Oil-colors
.236 Encaustic or wax colors
.238 Individual pigments
Source, preparation, chemistry, durability, etc. See also 752.8 Individual colors

749.244 19th century
Empire, Napoleonic
.245 20th century
.25 Italian
Renaissance; clas here general works on renaissance furniture (see also 749.221 English renaissanee, 749.242 French renaissance, etc.)
.26 Spanish Portuguese
.27 Slavic Russian
.28 Scandinavian
.29 Other
Divided like 930–999; e.g. 749.2937 Roman, 749.29493 Flemish
.3 Special articles of furniture
.31 Chairs Footstools
.32 Couches Settees Sofas Lounges
.33 Tables
.34 Desks
.35 Screens
.36 Beds
.37 Cushions, pillows, etc.
.38 Coffers Chests Trunks
.39 Other
.4 Fixt or built-in furniture
See also 729.9 Fixt furniture in Architecture
.5 Special ornamental work
Lacker work, marquetry, inlay, buhlwork, scrollsawing, fretwork, etc. See also 745.51 Artistic woodwork in general
.6 Heating and lighting fixtures
See also Heat, light, ventilation in Domestic economy 644, in Industrial plants 658.24–.25; 697 Heating and ventilation in Building construction, 739 Metal arts
.61 General questions
.62 Heating fixtures
Fireplaces, inglenooks, mantels, radiators, stoves, etc.
.63 Lighting fixtures
May be divided like 644.32, e.g. 749.636 Chandeliers. See also 738.83 Ceramic lighting fixtures, 729.98 Lighting fixtures in architecture
.7 Ornaments
.71 General questions
.72 Picture frames and framing
.73 Pictures
.74 Clock cases
See also 739.3 Artistic horology
.75 Vases
For vases in general see 738.38
.76 Statuary
See also 730 Sculpture

750 Painting

For form divisions see Table 2 after Relativ index

751 General questions
Materials, methods, etc. See also 729.4 Architectural painted decoration, 741–744 Drawing. See also in Relativ index entries for special articles, e.g. China painting

SUMMARY

751.2	**Materials**	**.5**	**Reproduction**
.3	**Equipment**	**.6**	**Preservation**
.4	**Tecnic**	**.7**	**Object and form of paintings**

.2 Materials
Including under each discussions of suitability and special problems of use
.21 General questions
.22 Surfaces Grounds
.221 General questions
.222 Wood Panels
.223 Stone Concrete Plaster
.224 Metals
May be divided like 669, e.g. 751.2241 Iron, steel
.225 Ivory, bone, horn, shel, etc.
.226 Ceramic materials Glas, etc.
May be divided like 666.1–.7, e.g. 751.2261 Glas
.227 Textils Canvas Fabrics
May be divided like 677, e.g. 751.2274 Silk
.228 Paper, etc.
Papirus, parchment, vellum, cardboard
.229 Other
.23 Pigments Paints
For tecnic of use see under 751.4 Water color, distemper, oil, etc. painting. For charcoal, crayons, pastels see 741.2 Drawing mediums. See also 667.6 Paint manufacture, 752 Color and coloring
.231 General questions
.232 Water-colors
Various forms and types: cakes, pastils, tubes; gouache and body colors, etc.
.233 Distemper or tempera colors
.234 Colord inks
India ink, sepia, etc
.235 Oil-colors
.236 Encaustic or wax colors
.238 Individual pigments
Source, preparation, chemistry, durability, etc. See also 752.8 Individual colors

751.24 Mediums Vehicles

.241 General questions

.242 For water colors and distemper

Honey, levulose, glicerin, glue, gums, dextrin, starch, flour, paste, curds, casein, eg (yolk, vitellin; white, albumin), etc.

.243 Waterglas

.244 For fresco grounds

Lime water, barita water, etc.

.245 For oil and wax colors

Oils: animal, mineral, vegetable (linseed oil, nut oils, etc.), (see also 751.247 Oils as solvents and diluents); waxes: beeswax, Chinese wax, paraffin wax, etc.; resins (see also 751.25 Varnishes)

.247 Solvents Diluents

Water. Oils: turpentine oils; terpenes, oils of lavender, eucaliptus, lemon, orange, rosemary; petroleum, benzene, benzol, toluene, etc. (see also 751.245 Oils as mediums). Alcohols, ethers, chloroform, etc.

.248 Dryers

.25 Fixativs Coatings

Varnishes: amber, copal, damar, mastic, megilp, etc. (see also 751.245 Resins); lackers

.3 Equipment Furniture Tools

Including general discussions of use of each. Easels, stools, tables, etc. Palets, stretchers, slabs. Color tubes, mixing dishes, wash trays, etc. Bags, portfolios, object holders, studio and field boxes, parasols and other painters' accessories

.33 Models

Dummies, lay-figures, manikins, patterns, etc.

.34 Tools

Brushes, pencils, knives, erasers, mahl-sticks or handrests, mullers, sponges, etc. Fingers as painting tools

.4 Tecnic Methods

For coloring tecnic see 752.4. See also 741.4 Drawing tecnic

.41 General questions

Designs for painting, etc. Preparing surfaces: cleaning, priming, sizing. Mixing and preparing pigments, mediums, vehicles. Painting operations: preliminary sketching, outlining, etc.; composition (backgrounds, chiaroscuro, etc.); corrections, etc. Coating, glazing, varnishing, etc.

751.42 Water-color painting

Aquarels; gouache, wash, ink painting; sepia work, water monocrome. For water-colors see 751.232, colord inks 751.234, water-color mediums 751.242

.43 Distemper or tempera painting

For distemper colors see 751.233, mediums 751.242

.44 Fresco painting

For fresco mediums see 751.244. See also 751.73 Frescos

.45 Oil painting Impasto

For oil-colors see 751.235, oil-color mediums 751.245

.46 Encaustic or wax painting

For encaustic colors see 751.236, wax color mediums 751.245

.47 Stereocromy Waterglas painting

For waterglas as a medium see 751.243

.48 Mosaic painting

.49 Other

.5 Reproduction Copying

By drawing, painting, engraving, photografing, etc.

.58 Forgeries Alterations

Expertizing, detection of fraud, determination of authenticity

.6 Care Preservation

Accidents, deterioration, injuries, fading, cracking, blooming, etc. Precautions, remedies, cleaning, restoring, retuching, etc.

.7 Object and form of paintings

For other special types of painting see under 738 Ceramic china, pottery and enamel painting, 745.6 Ornamental lettering, manuscript illumination, 745.7 Decalcomania, 746.3 Cartoons for tapestries; also special subjects of painting 753–758

.72 Easel pieces

Altarpieces, diptics, triptics, poliptics

.73 Murals Frescos

See also 729.4 Painting in Architecture, 747.32 Painting ceilings and walls in Interior decoration, 751.44 Fresco painting

.74 Panoramas

Cosmoramas, cycloramas, dioramas. See also these terms in Relativ index for composit and other forms

.75 Scene paintings Theater scenery

.76 Ornamental and decorativ paintings

See also 698.1 Painting buildings, 729.4 Decorativ painting in Architecture, 747 Interior decoration

752 Color Chromatografy

Chromatics, theory of color. See also 152.133 Color psicology, 535.6 Optics of color, 612.8433 Color phisiology, 751.23 Pigments, paints; also special applications, e.g. 659.1325 Color in Advertizing

.1 **General questions**

Color analisis, properties, qualities, etc. Color constants, warm and cool colors, advancing and retreating colors. Color values and intensities. Primary and complementary colors, near-complements and triads; etc.

.2 **Color symbolism**

.3 " **scales and charts**

.4 **Color tecnic Manipulation**

Color harmonics, mixtures, gradation, contrast. Form and color. Color in light and shade. Color in composition. For painting tecnic in general see 751.4

.5 **Composition of artists palets**

Choice of colors

.6 **Monocrome painting**

.8 **Individual colors**

See also 751.238 Individual pigments

753–758 Special subjects of painting

History, tecnic, etc. See also special applications, e.g. 712.35
Use of painting in Landscape architecture

753 Mythic Epic Idealistic

Gods, heroes, etc. Allegoric, fabulous, legendary. Symbolic, idealistic, mystic. Decorativ, designs, patterns, etc. For general discussions of human figure painting see 757

754 Genre

Anecdotal subjects, every-day life

755 Religious Ecclesiastic

May be divided like 704.948, e.g. 755.3 Early Christian, Byzantine, 755.5 Paintings of Christ. See also 246–247 Ecclesiology

756 Historical

Famous events, battle scenes, etc.

757 Human figure Portrait

See also 743 Art anatomy

.1 **General questions**

Principles of portraiture

.2 **Nude or draped**

.22 Nude .23 Draped

.3 **Men** .4 **Women** .5 **Children**

.6 **Mixt portrait groups**

.7 **Miniature painting**

.8 **Special classes of portraits**

May be divided like 920, e.g. 757.833 Portraits of statesmen

.9 **Collections of portraits**

758 Other subjects of painting

.1 **Landscape Scenery**

.2 **Marine Seascape**

.3 **Animals Hunting Sporting**

For ded game see 758.45

.39 Special animals

.392–.399 may be divided like 592–599 e.g. 758.3982 Birds

.4 **Stil life**

.41 General questions

.42 Plants Trees Flowers

.428 Special plants

2–9 may be divided like 582–589, e.g. 758.428337 Roses

.43 Fruit

.44 Vegetables

.45 Ded game

.46 Inanimate objects

.6 **Industrial subjects**

May be divided like 600, e.g. 758.622 Mining subjects

.7 **Buildings Architectural subjects**

May be divided like 720, e.g. 758.754 Factories

.8 **Special objects in painting**

May be divided like the whole classification, e.g. 758.855 Geologic specimens

.9 **Collections of paintings**

Collections of special types may be clast here or with those types

759 Various schools or stiles of painting

For general history of painting and local treatment use 750.9 divided like 930–999

.1 **American**

For Mexican use 759.972, Spanish or Latin American 759.98

.11 Canadian

May be divided like 971, e.g. 759.115 New Brunswick

.13 United States

May be divided by periods like 973, e.g. 759.132 Colonial

.14–.19 Local

Divided like 974–979, e.g. 759.14 New England

.2 **English**

May be divided like 942, e.g. 759.2081 Victorian painters, English preraffaelites, 759.247 Newlyn school

.3 **German Austrian, etc.**

May be divided like 943, e.g. 759.307 German preraffaelites or Nazarites, 759.332 Nuremberg school, 759.36 Austrian

.4 **French**

May be divided like 944, e.g. 759.437 Barbizon or Fontainebleau-Barbizon school

.5 **Italian**

May be divided like 945, e.g. 759.505 Italian renaissance painters, 759.55 Sienese school

.6 **Spanish Portuguese**

May be divided like 946, e.g. 759.67 Valencian school, 759.69 Portuguese

.7 **Slavic Russian, etc.**

May be divided like 947, e.g. 759.71 Finnish

.8 **Scandinavian**

May be divided like 948, e.g. 759.89 Danish

.9 **Other schools**

.91 International schools

.911 Classicism Orientalism

.912 Naturalism

Romanticism, realism. For preraffaelitism see under 759.2 English, 759.3 German or Nazarites

.913 Eclecticism Synthesism

.914 Impressionism

Luminism, pleinairism, divisionism, secessionism, independents

.915 Postimpressionism

Fauvism; cubism, purism; futurism; vorticism; expressionism, surrealism

.93–.99 National schools

Divided like 930–999, omitting schools provided for in 759.1–.8; e.g. 759.9492 Dutch, 759.9493 Flemish, Belgian

760 Engraving

For complete list of form divisions see Table 2 following Relativ index, using 760.78 for instruments, apparatus, equipment: engravers tools, e.g. burin or graver, burnishers, needles, scrapers, etc.; engravers presses; printing supplies, inks, papers; engravers furniture, accessories and supplies, e.g. acids, mordants, etc. For engraving machines see 768. See also 655 Printing, publishing, 737 Coins and medals, 745–749 Industrial decoration and design; also special applications, e.g. 659.1323 Engravings in Advertizing

761 Relief engraving

See also 768.1 Machine relief engraving, 777.2 Photorelief processes

.1 **General questions**

.2 **Wood engraving Xylografy**

Woodcuts. See also 777.8 Photoxilografy

.21 General questions

Design, composition, etc.

.22 Wood blocks

Side or end grain, various kinds of wood, etc.

.23 Preparing surface for design

Cleaning, polishing, ground laying, etc.

.24 Sketching design

Drawing, tracing, transfering

.25 Line cutting

Black and white line, hatching, scrolls, geometric designs, etc.

.27 Chiaroscuro method

.28 Inking Printing

.281 General questions

.232 In black and white

.283 " color Chromoxilografy

Monocrome, policrome; Japanese color prints

761.3–.8 may be divided as needed like 761.2, e.g. 761.383 Linoleum block color printing

.3 **Linoleum engraving Lino-cuts**

.4 **Rubber and rubberized materials**

.5 **Lether**

.6 **Celluloid**

.7 **Artcraft composition**

.8 **Metal relief engraving**

For metal engraving in general see 762

.9 **Other materials**

Shelf fungi, potato blocks, etc.

762 Intaglio engraving Metal engraving
For special methods see 765–768. See also 761.8 Metal relief engraving, 777.1 Photointaglio processes
.1–.7 may be used like 669.1–.7 according to metal employd, each may be further subdivided by 2 Bare metal, 3 Faced metal; further divided like 669.1–.7 according to metal facing used; e.g. 762.3 Copper engraving, chalcografy, glifografy, 762.331 Steel faced copper plates
.8 **Printing processes**
.81–.87 may be used like 669.1–.7 according to metal employd, each being further subdivided like 761.28; e.g. 762.833 Chromocalcografy
.88 General methods
May be divided like 761.28, e.g. 762.883 Color methods in metal engraving
.9 **Other topics**

763 Lithografy Planografy Metalografy
See also 768.3 Machine metalografy, 775 Photolithografy, 776 Photometalografy
.1 **General questions**
.2 **Lithografic surfaces**
.21 General questions
.22 Lithografic stones
.23 Aluminum Algrafy Aluminografy
.24 Zinc Lithozincografy Zincografy
.3 **Preparing surface for design**
Cleaning, polishing, ground laying, graining
.4 **Making design**
Greasy chalk or ink drawing, stippling (for stipple engraving see 765.5), spatter work, spraying, transfering
.5 **Preparing surface for printing**
Applying acid, washing
.8 **Inking Printing**
For chromolithografy see 764
764 **Chromolithografy**
See also 775.8 Photocromolithografy, 776.8 Photocromometalografy

765 Line engraving Stipple engraving and other dot methods
.1 **General questions**
.2 **Line engraving**
.4 **Chalk or crayon engraving**
.5 **Stipple engraving**
Dot methods in general. For lithografic stippling see 763.4
.6 **Cribbling Criblé engraving**

766 Mezzotint, aquatint and allied methods
.1 **General questions**
.2 **Mezzotint**
.3 **Aquatint**
.4 **Sulfur-tint**
.7 **Mixt or composit processes**
Discussions of any 2 or more processes of engraving combined in 1 print
.8 **Monotipes**

767 Etching Dry-point
.1 **General questions**
.2 **Etching**
Caligrafic, soft-ground, etc. etching. See also special applications, e.g. in Arts and crafts 748.6 Etching on glas
.3 **Dry-point Draw-point**
.4 **Gelatin dry-point**

768 Machine engraving
.1–.7 may be divided so far as needed like 761–767, e.g. 768.3 Machine lithografy and metalografy. For eccentric engraving use 768.52
.8 **Special machine engraving**
Engraving of banknotes, government notes, paper money, bonds, morgages, stocks and other securities; postage stamps, etc.
.9 **Other topics**

769 Collections of engravings
If collection covers les than half of following hedings, clas with 1st mentiond in tables unless some 1 subject predominates; if more than half clas in general number unless 1 predominates or is library's specialty
.1 **Collecting**
Tecnic, methods of collecting, preservation, etc.
.2 **By engraver**
.3 " **artist copied**
.4 " **subject**
.41 Engravers and collectors marks, monograms, etc.
.42–.49 divided like 704.942–.949, e.g. 769.42 Portrait engravings
.5 **By form**
Plates, diplomas, menus, visiting cards, postcards and other illustrated cards, decorativ prints, color prints, prints for children, posters, etc.
.6 **By process**
Divided like 761–768, e.g. 769.612 Woodcuts. May be clast under number for process in 761–768 by adding 084 to process number, further subdividing if desired by subject like 704.94; e.g. 761.2084 Woodcuts, 761.20842 Portrait woodcuts
.9 **By locality and period**
Divided like 930–999. For general history and local treatment use 760.9 divided like 930–999

770 Photografy Heliografy

Sun-pictures, sun-prints. See also 535 Optics, 541.3 Phisical chemistry (esp. 541.3452 Colloid chemistry, 541.35 Photochemistry). For ful list of form divisions see Table 2 after Relativ index. For collections of photografs see 779. See also special applications, e.g. 659.1323 Photografs in Advertizing

.1 **Theory**

Influences acting on photografic preparations (see also 771.534 Sensitivity, 771.535 Latent image). Esthetics, photografy as an art. Theories of phisical influences on photografic preparations, mecanical influences, photografic optics (see also 535 Optics in Phisics). Theories of chemic influences on photografic preparations. (For Photografic chemistry see 771.5–.7. For chemistry and reactions in any special process see number for that process. See also 541.35 Photochemistry)

.2 **Compends**

.28 General tecnic

Elementary operations of photografic processes. For special tecnic of individual processes see numbers for those processes in 772–778, to any of which 028 and subdivisions may be added as desired

SUMMARY

770.281 **Operations preceding exposure**
.282 " **accompanying** "
.283 " **immediately following exposure**
.284 **Treatment of positivs Working up**
.285 **Preservation and use of negativs and transparencies**
.286 " " " " **prints or positivs**
.287 **Recovery of materials, wastes, residues, etc.**

.281 Operations preceding exposure

Preliminary operations for camera exposure or direct printing

1 **General questions**

2 **Preparation of sensitiv emulsions, plates and films**

Preservation, manipulation, transporting, storing, marking, etc. Referring to actual manufacture only (for types of emulsions, composition, ingredients, etc. see 771.53–.54). Preparation of ingredients, including addition of preservativs, etc. (for substratums see 771.528). Preparing plates and films for coating (see also 771.532 Sensitiv supports). Coating plates and films with sensitiv material. Leveling, setting, drying, reticulation. Cutting plates and films. Arranging, packing, etc. For apparatus used in these processes ad 078; see also 771.4 Apparatus and utensils. For colloids, supports and sensitiv materials in general see 771.5. For relation of these processes to sensitivity see 771.534

770.2813 **Preparation of sensitiv papers**

For preparation of emulsion see 770.2812. Preparing paper for coating, including coating with non-sensitiv substratums, e.g. barita (see also 771.528 Special substratums). Coating paper with sensitiv material. Setting, drying; cutting; arranging, marking, numbering, packing, storing, transporting. See also 771.5323 Sensitiv papers in general

4 **Preexposure dark room operations**

See also 770.2832 Preparation of dark room for developing, 771.13 Dark rooms in general

5 **Preparation and manipulation of apparatus and utensils**

Cleaning, etc. See also 771.4 Apparatus and utensils

7 **Prevention of halation Plate backing**

Compensator negativs, etc. For halation see 771.537. See also 771.528 Antihalation backings

8 **Treatment of defectiv plates, films and papers**

.282 Operations accompanying exposure

For camera exposures or direct printing. (For exposure apparatus see 771.3). Choice and arrangement of subject, composition, photografic perspectiv, posing. Preparation and installation of apparatus: preparing cameras (loading, preparing slides, etc.); preparing printing frames (see also 771.41–.42 Printing apparatus); installation of exposure accessories (see also 771.21 Furniture and accessories). Choice and preparation of illumination: arrangement of lamps, screens, etc. (see also 771.22 Studio lighting, 771.44 Light sources). Estimation of light values: quality, intensity, etc.; determination of exposure (see also 771.37 Exposure meters and calculators). Adjustment of exposure apparatus and diaframs, stopping-down (see also 771.354 Diaframs in general). Making the exposure: focusing, etc.

.283 Operations immediately following exposure

Treatment of negativs. For apparatus see 771.43

1 **General questions**

2 **Preparation of dark rooms**

Including general discussions of dark room preparations. See also 770.2814 Preexposure dark room operations, 771.13 Dark rooms in general, 771.23 Dark room furnishings, 771.24 Dark room lighting

3 **Preparation of utensils**

4 " " **baths**

For composition and ingredients see 771.54

5 **Development**

Chemic, phisical, etc. development. See also 771.5343 Desensitization, 771.5345 Laws of development, solarization, reversal, etc., 771.535 Latent image

770.2836 **Toning**
See also 773.53 Dye toning
7 **Changing density**
Harmonizing harsh contrasts. Intensifying, redevelopment; reducing, rehalogenizing; bleaching, clearing, etc.
8 **Finishing negativs**
Hardening, fixing, hypo elimination, washing, drying, retuching, etc.
9 **Other**
.284 Treatment of positivs Working up
For apparatus see 771.45
1 **General questions**
2 **Printing**
3 **Finishing**
Retuching positivs, blocking or stopping out, spotting. Tinting, coloring, air-brush work, hellenotipe, hallotipe, etc. processes. Varnishing, varnish removal, etc.
4 **Mounting**
Derepas, ivoritipe, etc. processes. For framing see 770.2864
5 **Trimming**
6 **Surfacing**
Glazing, burnishing, hot pressing, rolling, matting, graining, enameling, etc.
7 **Embossing**
Basrelief prints, etc.
8 **Transfering images to special supports**
To glas, porcelain, etc.
9 **Other**
Edging, safe-edge, etc.
.285 Preservation and use of negativs and transparencies
1 **General questions**
2 **Deterioration Defects**
Negativ and positiv troubles: causes, remedies, restoring, repairing. Aging; drying marks; crape, cristal, etc. markings; stains, fogging (see also 771.5345 Fog); pinholes, dust spots, crackt and broken negativs, etc.
3 **Stripping and reversing negativs**
Film stripping, Eburneum process, etc. (see also 771.527 Stripping films, 778.13 Enlarging by stripping). Phototegie, etc.
4 **Preservation Storing Duplication**
See also 771.46 Storage apparatus, 778.12 Reproduction by camera
5 **Classification of negativ collections**
Titling, lettering, numbering
6 **Packing Transporting**

770.286 Preservation and use of prints or positivs
Divided like 770.285. 4 includes passe-partout and framing (for mounting see 770.2844), 6 includes print exhibition and arrangement (see also 771.46 Display and exhibition furniture)
.287 Recovery of materials
Recovery of wastes, residues, etc. Restoration of sensitiv materials, regeneration of baths, etc.
.6 **Societies Interested persons**
.69 Persons in relation to photografy
Professional, amateur, etc. photografy. General discussions only. Discussions of special operations and types of photografy ar preferably clast under numbers for those operations and types

771 Photografic materials Photografic chemistry

Premises, apparatus, substances

SUMMARY

771.1 **Buildings Premises**
.2 **Furniture and fittings for photografic establishments**
.3 **Cameras and their accessories**
.4 **Apparatus common to negativs and prints**
.5 **Photografic chemistry**
.6 **Inorganic chemicals**
.7 **Organic "**
.8 **Apparatus for obtaining prints by mecanical impression**
.9 **Other photografic materials**

.1 **Buildings Premises**
Special installations and interior arrangement. For architecture see 727.77 Galleries, 727.797 Studios
.11 Buildings devoted to photografy in general
Society houses, meeting places, assembly halls, reception rooms
.12 Photograf studios
Exposure and enlarging rooms; design and arrangement
.125 Cinematograf studios
See also 778.5 Cinematografy
.13 Dark rooms Developing laboratories
See also 770.2814 Preexposure dark room operations, 770.2832 Postexposure dark room preparations
.14 Printing rooms
.15 Research and testing rooms
.16 Factories Workshops
.17 Schools Teaching establishments
For study and teaching use 770.7
.18 Supply houses
Commercial premises, business and sales establishments
.19 Other

771.2 Furniture and fittings for photografic establishments

.21 General studio furniture
Exposure accessories, decorations, etc. Posing chairs, hedrests, backgrounds, etc. See also 770.282 Installation of exposure accessories

.22 General lighting of studios
Windows: arrangement, glazing, blocking up, etc.; light fixtures: arrangement, etc.; blinds, curtains; screens, diffusers, reflectors. For dark room lighting see 771.24. See also 770.282 Choice and preparation of illumination for exposure, 771.295 Lighting of cinematograf stages, 771.44 Light sources

.23 Dark room or developing laboratory furnishings
Tables, work benches, shelvs, cupboards, water supply, plumming, developing and washing sinks, seats, etc. See also 770.2832 Postexposure dark room preparations, 771.43 Developing apparatus

.24 General lighting of dark rooms
Special dark room lamps, lanterns and filters, safe-lights, window glazing (see also 771.356 Color filters for cameras, 771.41 Colord glas for printing); dark room shades and fabrics. For general studio lighting see 771.22. See also 770.2832 Postexposure dark room preparations, 771.44 Light sources

.25 Portable laboratories and studios
Photografic tents, wagons, etc.; portable developing furniture

.26 Furnishings of printing and reproduction rooms
.27 " " enlarging and projection rooms
.28 " " photomecanical printing rooms

.29 Other

.295 Furnishings of cinematograf laboratories
Stage fittings and arrangements, lighting (see also 771.22 General studio lighting, 771.44 Light sources), scenery, accessories, etc. See also 778.5 Cinematografy

.3 Cameras and their accessories
Apparatus for taking photografs direct. For exposure operations see 770.282. See also 535.8 Optical instruments in Phisics, 681.4 Manufacture of optical instruments; also numbers for special applications in 778

SUMMARY

771.31	**Cameras**	.35	**Optical parts**
.32	**Material holders**	.36	**Photografic shutters**
	Adapters Backs	.37	**Focusing and exposure apparatus**
.33	**Daylight loading and changing boxes Film and roll holders**	.38	**Camera accessories**
		.39	**Other camera apparatus**
.34	**Stands and supports**		

771.31 Cameras
Camera obscura

.311 General questions

.312 Studio and field cameras
Portable stand cameras, 'hand or stand', universal cameras

.313 Hand cameras
Fixt focus cameras; cameras automatically taking a series of photografs; cameras using cinematograf film for single exposures; etc.

1 General questions

2 Plate cameras
Box cameras, magazine cameras (also cald detectiv cameras; see also 771.3136 Disgized cameras); reflex or reflector cameras (see also 771.3133 Roll film reflex cameras); focal plane or candid cameras; etc.

3 Roll film cameras Film cameras
Kodaks, filmografs. Roll film reflex cameras (see also 771.3132 Reflex cameras in general), etc. Double exposure prevention devices (see also 771.36 Shutters, 771.37 Exposure indicators); film winding devices, (see also 771.33 Film spools and roll holders); etc.

4 Film pack cameras

6 Disgized cameras Detectiv cameras
Cameras for detectiv and other secret work, secret cameras. Book, buttonhole, hat, opera-glas, vest, watch ('Ticka'), etc. cameras. See also 771.3132 Magazine cameras, 771.314 Cameras closing like a book

.314 Folding and extensible cameras
Bellows cameras and bellows. Extensions and extension frames, extension cameras. Flap or shutter folding cameras, sliding body cameras, cameras closing like a book (see also 771.3136 Book cameras), etc.

8 Pocket cameras
Clas here general discussions of miniature cameras

.315 Binocular or twin lens cameras
Photojumelles. See also 778.42 Stereoscopic cameras

.316 Panoramic and cycloramic cameras
Cyclografs for photografing all sides of cylindric objects on 1 surface, oroheliografs, pantascopic camera, planetable, etc. Cyclografs for photografing panoramas, cirkut cameras, cylindrografs, panoram cameras, etc. See also 778.35 Aerial cameras, 778.36 Panoramic photografy

771.317 Process cameras Photoengraving cameras
Cameras, copiboards and other accessories for photomecanical reproduction. For photomecanical processes see 774–777

.318 Copying and enlarging cameras and lanterns
Photostat and similar cameras; projection printers; easels, copiholders, material holders, etc. For light sources, condensers, etc. see 771.44. See also 778.1 Industrial reproduction, enlarging, 778.2 Projection

.319 Other types of cameras

1 **Multiplying apparatus**
Cameras for producing several exposures on 1 exposure area. Multiple, postage stamp, etc. cameras. See also 771.32 Repeating backs, 771.352 Lens devices for securing multiple images, 778.8 Polipose photografy

2 **Lensless cameras**
Pinhole cameras, stenopaic or fish-eye photografy; mirror, prism, etc. cameras

3 **Automatic cameras**
In whieh developing and fixing ar performd

.32 Material holders Adapters Backs
Dark slides, plate holders; plate carriers and adapters; repeating or multiplying backs or multipliers (see also 771.3191 Multiplying apparatus in general, 771.352 Lens devices for seeuring multiple images), swing and sliding backs, side swings (see also 771.353 Swing fronts, 771.37 Focusing devices), etc.; combined material holders and development tanks. For film pack adapters see 771.33

.33 Daylight loading and changing boxes Film and roll holders
Plate magazines, magazine slides, plate sheaths. Film spools, daylight cartridges; roller slides (see also 771.3133 Film winding deviees in general). Film packs, film pack adapters (see also 771.32 Adapters in general). Envelope film and plate changers; etc.

.34 Camera stands and supports Tripods
Studio and field stands; stands for cinematografic apparatus; for copying, enlarging and photomecanical apparatus; etc. Accessories: fastenings and screws, camera baseboards, turntables, adjustment apparatus, etc.

771.35 Optical parts of cameras
See also 535.85 Photografic optics in Phisics

.351 General questions

.352 Objectivs Lenses
Charaeteristics, dimensions, etc. Depth of focus, definition or field; resolving power, angle of view, etc. (For scientific principles of lenses, elementary forms, etc. see 535.81) Various types of lenses: simple, anastigmat, telefoto, etc.; wide angle lenses (see also 778.36 Wide angle photografy); telefoto backs and combinations (see also 778.32 Telefotografy); portrait attachments; devices for securing multiple or distorted images (see also 771.3191 Multiplying cameras, 771.32 Repeating and multiplying baeks, 778.8 Trick photografy); diffused image apparatus; optical lens attachments, planiscopes, magnifiers, etc. (see also 771.37 Focusing magnifiers). See also numbers for special types of photografy

.353 Fronts Mounts
Lens boards or panels, camera fronts. Rizing and falling, swing, etc. fronts (see also 771.32 Swing baeks). Lens adapters, braswork, flanges, screws and other accessories for lens mounts. See also 771.37 Focusing devices

.354 Diaframs Stops Apertures
Focal or working aperture, marking or numbering systems (F numbers, etc.), influence of rapidity, functions and position of diaframs; diafram mountings, etc. See also 770.282 Adjustment of diaframs

.355 Compensating glasses
E.g. Miethe's compensator

.356 Color filters or screens Light filters
Including filter holders. See also 771.24 Dark room filters, 771.41 Colord glas for printing, 771.5342 Filter faetors, 778.6 Photografy of colors

.357 Mirrors and prisms for reversing images and negativs

.358 Lens hoods and shades Sky shades

.359 Other

.36 Photografic shutters Instantaneous shutters
Obturators. Construction, tests, use, performance, etc. Time exposure apparatus, lens caps, time valvs, etc. Shutter operators, releases, self timers, etc. See also 771.3133 Automatic film changing apparatus and double exposure prevention devices, 778.37 Instantaneous photografy

771.37 Focusing and exposure apparatus

View finders and meters, identoscopes, etc.; iconometers, focimeters, distance meters, etc. Camera levels, plum indicators. Exposure indicators and counters (see also 771.3133 Double exposure prevention devices for film cameras). Photografers compasses. Exposure meters, reckoners or calculators and tables, actinometers, etc. (see also 770.282 Estimation of light values, 771.41 Print meters and actinometers, 771.5345 Photometry in general). Focusing devices, magnifiers, racks and mounts, adjusters, etc. (see also 771.32 Swing backs, 771.352 Supplementary lenses and magnifiers, 771.353 Camera fronts). Focusing screens, light deflectors, scales, etc. Vignetters for cameras (see also 771.41 Print vignetters)

.38 Camera accessories

Focusing cloths, curtains and other flexible focusing attachments. Camera and apparatus cases and carriers, bags, lens cases, etc.; trunks for transporting photografic apparatus; etc.

.39 Other camera apparatus

.4 Apparatus common to negativs and prints

See also 770.2815 Preparation and manipulation of apparatus

SUMMARY

771.41	**Glas and paper cutting apparatus Print making accessories**	.44	**Light sources**
.42	**Printing frames and machines**	.45	**Retuching and finishing apparatus**
.43	**Apparatus for developing, fixing, washing and drying**	.46	**Preservation, examination and transportation apparatus**
		.47	**Laboratory utensils**

.41 Glas and paper cutting apparatus Print making accessories

Mesuring apparatus; cutting shapes, forms or molds. Cutting and trimming utensils and machines, guillotines, etc. (for mounting apparatus see 771.46). Gages and print mesurers. Frosted and colord glas for printing (see also 771.24 Safe-lights, 771.356 Color filters). Print vignetters, printing masks, cloud and border negativs (see also 771.37 Vignetters for cameras). Print meters and actinometers for determining printing times (see also 771.37 Exposure meters and actinometers). Print and negativ timers, dark room clocks. Print indicators, etc.

.42 Printing frames and machines

Various types of frames and printers: châssis à ventouses (ventiduct frames), cinematograf printing machines, fantasmografs; inscription or titling, numbering and lettering printers, etc. See also 770.282 Preparing printing frames for exposure

771.43 Apparatus for developing, fixing, washing and drying

Baths, trays, trofs, etc. Draining apparatus. Apparatus for handling plates, films and prints. Special apparatus for developing and etching printing plates: graining apparatus, resin boxes, heaters and heating slabs; instruments for finishing and retuching printing plates (see also 771.45 Retuching apparatus in general); materials for duplicating by electrotipe, etc. For operations see 770.283. See also 771.23 Developing room furnishings, developing and washing sinks, 771.47 Laboratory utensils, thermometers, etc.

.44 Light sources for photografic operations

See also 770.282 Choice and preparation of illumination for exposure, 771.22 General lighting of studios, 771.24 General lighting of dark rooms, 771.295 Lighting of cinematograf stages, 771.5345 Standard light sources for sensitometry

.441 General questions

.442 Sunlight photografy

Natural light photografy in general. Natural daylight, reflected or condenst sunlight, etc. Condensers, heliostats (see also 778.22 Optical lantern condensers). For moonlight, starlight, etc. see 771.4491 Night photografy

.443 Artificial light photografy

1 **General questions**

2 **Lighting by combustible solids or liquids**

3 Candle light

4 Oil lights

5 Spirit lamps Alcohol lamps

See also 771.446 Spirit vapor lamps

.444 **Natural or ordinary gaslights**

Gas jets, incandescent burners, Auer or Welsbach jets, etc.

.445 **Lighting by comprest and mixt gases**

Limelight, calcium light, oxicalcium, oxihidrogen or Drummond light, etc. Acetilene light. Comprest gas reservoirs and generators, gas cylinders, carbid tanks, etc. Lime cylinders, limes

.446 **Lighting by mixture of vapors and gases**

Vaporized gases, spirit vapor lights, sol lamps, incandescent spirit lamps (see also 771.4435 Spirit lamps), oxyether lights, etc.

771.447 **Electric lighting**
Arc, incandescent, etc. lights. Regulators, etc. 5–7 may be divided like 621.325–.327, e.g. 771.44756 Flaming arcs

.448 **Lighting by magnesium and flash powders**
Flashlight photografy. Flash lamps and materials, touch papers, pyrotecnic lights, luxograf, etc.

.449 Other light sources
Lightning, etc.

1 **Night photografy**
Moonlight, starlight, street lights, etc.

.45 Retuching and finishing apparatus
Retuching desks, frames, mediums, varnishes, powders, etc. Coloring apparatus, easels, palets, pigments, etc. Drying apparatus, presses, squeegees, blotters, etc. Surfacing apparatus, glazing plates (ferrotipes, etc.), burnishers, pulp slabs; polishing, lubricating, cleaning, etc. materials; encaustic or cerate paste, etc. Embossing and enameling apparatus. Brushes, pencils, aerograf or air brush, ätzpinsel, crayons, swabs, etc. For processes see 770.284. See also 771.43 Instruments for finishing and retuching printing plates

.46 Preservation, examination and transportation apparatus
Filing and storage boxes and cabinets; envelopes, classifiers; albums, portfolios. Mounting materials and apparatus, mountants, paste, mucilage, etc.; passe-partout materials, etc. (see also 771.41 Trimming apparatus). Frames and framing apparatus. Display and exhibition furniture (see also 770.2866 Print exhibition). Viewing apparatus: monocles, alethoscopes, diafanoscopes, lanternoscopes, verants, etc.; binocular apparatus, grafoscopes (see also 778.44 Stereoscopic viewing apparatus); cosmoramas, etc. (see also 778.2 Photografic projection). Packing apparatus, transit boxes, etc. See also 770.2854 Preservation processes

.47 Laboratory utensils
Bottles, stoppers; glasses, graduates, burets, droppers, test glasses, hydrometers; funnels, filters and filtering mediums; scales, thermometers, stirring rods, tubing, labels, etc. See also 771.43 Apparatus for developing, fixing, washing and drying, including temperature controld development dishes

771.5 Photografic chemistry

Substances and raw materials used in photografy and in sensitiv preparations. Chemicals, etc. Use and preparation from photografic viewpoint. For properties and manufacture of these products from chemic and general viewpoints see 540 Chemistry and 660 Chemic tecnology

SUMMARY

771.51 **General questions**
.52 **Support materials**
.53 **Sensitiv preparations**
.54 **Composition and ingredients of photografic baths and mixtures**
.55 **Special substances used for printing**
.58 **Nonsensitiv emulsion and coating materials**

.51 General questions

.52 Support materials
Characteristics and suitability of various raw materials for use as photografic supports or surfaces. For sensitized supports see 771.532

.521 General questions

.522 Paper
Various kinds: for films, transfer papers, etc.

.523 Films of cellulose compounds
Celluloid films, composition, solvents, etc. Nitrate, acetate, viscose, etc. films

.524 Metal supports
Steel, precious metals, copper, etc.; in form of plates or films, etc.

.525 Special temporary supports
Flexible, opal glas, etc.

.526 Ceramic materials
Glas, porcelain, etc. May be divided like 666, e.g. 771.5261 Glas

.527 Stripping films
Films for stripping. See also 770.2853 Film stripping

.528 Special substratums and coatings
Backings. Noncurling film coatings: gelatin base, anticurling, cristoid, Sandell, etc. films. Barita and barita paper (see also 770.2813 Coating with barita). Antiabrasion, reinforcing, metallic, etc. coatings, metotipes. Antihalation backings (see also 770.2817 Plate backing). Sizing materials, etc. See also 770.2812 Applying special nonsensitiv substratums, including preservativs, to plates and films, 770.2813 to papers

.529 Other topics
Stone, wood, textils, etc. as support materials

1 **Cleaning and renovating old supports**

771.53 Sensitiv preparations

Properties of sensitiv materials. For manufacture of sensitiv emulsions see 770.2812, for photografic processes see 772–778

.531 General questions

.532 Sensitized supports

See also 770.2812 Preparing plates and films for coating, 771.52 Support materials

1 **General questions**

2 **Sensitized plates Dry plates**

Various types: ferrotipe plates, adamanteans; diapositiv, pinatipe, etc. plates

3 **Sensitized papers**

Development, bromid, etc. papers, transferotipes. Print- and bleach-out papers; aristotipe, collodion, etc. papers. Pinatipe, ozobrome, etc. papers; papier velours, etc. See also 770.2813 Preparation of sensitiv papers

4 **Sensitized films**

Film pack, roll, cinematograf, etc. films

5 **Sensitized surfaces clast by speed and use**

Ultrafast, for focal-plane shutter cameras and dul light portraits; fast, for portraits, outdoor groups and slowly moving objects; etc. For emulsions according to speed see 771.543

.533 Phisical characteristics of sensitiv emulsions

Size of grain, turbidity, etc.

.534 Sensitivity

Degrees of sensitivity, methods of denoting sensitivity, etc. See also 770.1 General photografic theory, 771.535 Latent image

1 **General questions**

Factors affecting sensitivity: heat, humidity, constituents of emulsions, etc. Phisical production of increast sensitivity, special chemic sensititizers, sensitization by auxiliary exposure, etc. For preparation of emulsions, ripening, special additions to emulsions, etc. see 770.2812

2 **Color sensitivity**

Wave-length, optical and spectral sensitivity and sensitizing. Sensitizing dyes and other color sensitizing substances, dye sensitizing baths, optical or selectiv sensitizers (see also 770.2812 Special additions to emulsions, 771.549 Dyes in general). Hypersensitizing to color. Filter factors and coefficients (see also 771.356 Color filters for cameras). Antiscreen and nonfilter plate dyes, etc. See also 778.62 Orthocromatism, pancromatism, etc.

771.5343 **Desensitization**

Reduced sensitivity, desensitizing dyes, oxidizers, etc. See also 770.2835 Development

5 **Sensitometry Photometry**

Mesurement of sensitivity; testing plates, films and other sensitiv surfaces. Systems of sensitometry: Hurter & Driffield (H & D), Scheiner, etc. Sensitometers: intensity scale, mesurement of latitude, photometric prisms, step wedges, etc.; time scale, exposure instruments, speed and inertia mesurement, sensitometric sector wheels, tablets, etc.; actinism (for general discussions of light sources see 771.44); spectrofotometers, etc. Characteristic and density curvs, law of blackening; exposure curvs; laws of development, velocity constant (see also 770.2835 Development processes); density and opacity meters and balances, mesurement of transparency, microfotometers, etc. Tone reproduction, contrast, graduation, variation with wave length, Purkinje effect. Properties of final photografic image, photometric constant or equivalent, color of developt image, resolution, graininess, covering power, turbidity, development effects, marginal and background effects, etc. Reciprocity law, Schwarzchild law or effect, time and intensity, intermittency effect or error. Solarization, reversal (see also 770.2835 Development for direct positivs). Effects of special radiations: Herschel effect (inversion by red light), Becquerel, Villard, etc. effects. Fog: chemic, color, etc. fog (see also 770.2852 Fogging of negativs and transparencies, 770.2862 of prints). Effects of various emanations and vapors: atmografy, vaporografy; sometimes also cald effluviografy (see also 778.34 Effluviografs) See also 535.2 Photometric optics, 771.37 Exposure meters

.535 Latent, embryonic or invisible image

Destruction of latent image, regression, fading. For development see 770.2835. See also 770.1 General photografic theory, 771.534 Sensitivity

.536 Distortion

Curvilinear or marginal, perspectiv, etc. distortion

.537 Halation

See also 770.2817 Prevention of halation

.538 Print-out effect

Direct or visible image

.539 Other

771.54 Composition and ingredients of photografic baths and mixtures
Instructions for preparation and use. For general discussions on preparation of development baths use 770.2834

.541 General questions
Corrosion by photografic solutions, etc.

.542 Film base solutions and chemicals Dopes
Acids; cellulose compounds, nitrate, acetate, viscose, etc. dopes: pyroxilin, collodion cotton or wool, soluble guncotton, celloidin, fatty esters, etc.; solvents; fillers, sizings; stabilizers, etc.

.543 Emulsions
See also 771.58 Nonsensitiv emulsion and coating materials

.544 Developing solutions and chemicals
Developers, reducing agents: indoxil, adurol, amidol, edinol, etc. Accelerators, alkalis, quick stuf. Restrainers. Devcloper solvents and preservativs

.545 Toning solutions and chemicals
Various types; metallic, nonmetallic, etc.; toning dyes (see also 773.53 Dye toning); toning baths for special purposes, etc.

.546 Density changing solutions and chemicals
Intensifiers, redevelopers, reducers, oxidizers, rehalogenizers, bleachers (calcium hypoclorit or chlorid of lime, Labarraque solution, alabaster solutions, etc.), clearing baths, stain removers, etc.

.547 Hardening and fixing solutions and chemicals
'Hypo', fixing-hardening baths, hypo eliminators, etc.

.548 Bicromate solutions and compounds
Ozotipe solutions, Bennett carbon sensitizer; ozobrome, carbro, bromoil solutions, etc.

.549 Other photografic solutions and compounds
Dyes, dye solutions, pinatipe dyes, etc. (see also 771.5342 Sensitizing dyes). Stripping solutions and chemicals, cresco-fylma, etc.

.55 Special substances used for printing
Inks, mordants, etching solutions, resins, resists. See also 771.8 Apparatus for obtaining prints by mecanical impression

.58 Nonsensitiv emulsion and coating materials
Intermediate substances; colloids and other nonsensitiv mediums for holding the sensitiv materials. Albumin, casein, collodion, curds, fish glue, gelatin, gums, metagelatin, etc. For sensitiv emulsions see 771.543. See also 771.6–.7 Reagents

771.6 Inorganic chemicals used in photografy
Elementary inorganic substances and reagents. May be divided like 546, e.g. 771.613 Chlorin

.7 Organic chemicals used in photografy
Elementary organic substances and reagents. May be divided like 547, e.g. 771.73 Alcohols

.8 Apparatus for obtaining prints by mecanical impression
Rollers, molds, gelatin reliefs, plaster casts, cylindric molds, etc. Grinding knives, inking tables. Presses. See also 771.55 Special substances used in printing

.9 Other photografic materials

772–778 Photografic processes
For sensitiv preparations, plates, films, etc. see 771.53

772 Photografic processes based on use of metals
See also 773 Carbon processes, dusting processes, etc.

SUMMARY

772.1	**Silver, copper, mercury**	.6	**Tin, titanium, zirconium, thorium, actinium**
.2	**Iron, manganese, cobalt, nickel**	.7	**Vanadium, antimony, bismuth, tantalum, niobium (columbium), polonium**
.3	**Platinum, palladium, gold, osmium, iridium, rhodium, ruthenium**	.8	**Berillium (glucinum), magnesium, zinc, cadmium, rare earths (cerium, aluminum, etc.)**
.4	**Chromium, molibdenum, uranium, tungsten (wolfram)**	.9	**Other metallic salts**
.5	**Led, thallium**		

.1 Silver group processes Silver prints
See also 772.32 Platinum-silver processes

.11 General questions

.12 Silver processes according to support material
Processes using silver salts on paper, metals, etc. Calotipes, talbotipes, gallo-nitrate of silver process, photogenic drawing, kerotipes, diafanotipes, Cooper, serum, etc. processes. Dagerreotipes (see also 772.14 Positiv wet collodion processes), bitumen niepceotipes, Niepce heliografic process, etc.

.13 Processes using silver salts with noncollodion coating sensitized by bathing
Silver processes using coatings of albumin, gelatin, starch, arrowroot, cellulose, varnish or lacker, resin, gum, silica, soluble glas, etc. Processes with albumin or gelatin, energiatipes (formerly cald ferrotipes, see also 772.14 Tintipes), gelatin and sugar processes, etc. on collodion (for collodion processes in general see 772.14). Poitevin processes, albumin niepceotipes, chrystolotipes, etc.

772.14 Collodion processes Collodiotipes
Wet-plate processes. Archerotipes, archotipes; direct positivs (see also 772.12 Dagerreotipes), ambrotipes, alabaster or alabastrin process; ferrografs, ferrotipes, melanotipes, melainotipes, or tintipes (see also 772.13 Energiatipes, 772.22 Positiv cyanotipes); honey process, dry ferrotipe, Nievsky, etc. processes; Fothergill, gum gallic, Norris, resin dry, Russell tannin or gallic acid, Wortley, etc. processes; Taupenot process; morfia, zanthocollodion, etc. processes. Collodion transfers (pannotipes, etc.) See also 772.13 Silver processes using albumin or gelatin on collodion, 772.15 Collodio-silver chlorid processes, 772.46 Uranium collodion processes

.15 Emulsion processes using silver salts
Dry-plate processes. Silver collodio-bromid processes; silver gelatino-bromid processes, pellicle (e.g. Kennett) processes, etc.; iodo-bromo gelatin processes, e.g. whey process; chloro-bromid gelatin processes; chloro-iodo-bromid gelatin processes; collodio-gelatin processes, etc. Collodio-silver chlorid processes, e.g. Chardon, etc. processes; Simpsontipes, etc. (see also 772.14 Collodion processes in general). Silver gelatino-chlorid processes, printing-out silver processes in general (aristotipes, etc.). Silver iodid gelatin processes. Unwasht development emulsion processes; etc.

.16 Processes using silver salts mixt with reducing salts
Processes using salts of silver and iron: catalisotipe, kallitipe (brown line processes, cerio printing, etc.), sepia printing, breth printing, fluorotipe, etc. processes. Processes with salts of silver and mercury, mercury-silver printing (see also 772.18 Mercury processes); etc.

.17 Processes using copper salts
Obernetter copper printing process; ferrocupric, etc. processes

.18 Processes using mercury salts
Mercury printing. See also 772.16 Mercury-silver printing

.19 Other silver group processes
Catatipes, phosfate printing, etc. See also note under 772.1

.2 Iron group processes
Printing with ferric salts, heliografic processes, printing from tracings. See also 773 Iron dusting, pigment, etc. processes

.21 General questions

.22 Ferroprussiate processes
Blueprint or cyanotipe processes. Cyanofer, cyanografic, gum-ferric, etc. processes (also cald positiv ferrotipes, see also 772.14 Tintipes). See also 744.532 Blueprint reproduction of drawings, 772.52 Chromocyanotipes

772.23 Ferrogallic or iron gallate processes
Black line processes. Fisch, Colas, Nakahara, etc. processes

.24 Other processes using iron salts
Chrisotipe or chripotipe, Herschel amfitipe, Zöllner iodid of starch, etc. processes

.25 Processes using manganese salts
Manganic lactate printing, etc.

.27 Processes using cobalt salts
Lumière process, etc.

.28 Processes using nickel salts

.3 Platinum and ruthenium group processes
Processes using salts of precious metals

.31 Platinum processes

.311 General questions on platino-ruthenium group processes

.312 Platinum printing-out processes
Platinum processes by direct blackening

.32 Platinum development processes
Platinotipe processes. Cold and hot bath processes (sepia platinotipes or sepiatipes), platinum-silver processes (for silver processes in general see 772.1)

.33 Palladium processes Palladiotipes

.34 Gold " Aurotipes

.35 Osmium " .37 Rhodium processes

.36 Iridium " .38 Ruthenium "

.39 Other platino-ruthenium group processes

.4 Chromium group processes
For processes depending on insolubilizing dicromated colloids and those requiring staining see 773

.41 General questions

.42 Chromium processes
With copper, iron, etc. salts (chromocyanotipes, see also 772.22 Cyanotipe processes in general). See also 773.12 Chromium pigment processes

.43 Molibdenum processes

.45 Uranium " Uranotipes
Uranimum niepceotipes; mercuro-, platino-, etc. uranotipes; Bartlett process for gaslight printing; etc.

.46 Uranium collodion processes
Processes using uranium and collodion silver salts. Wothly process, wothlitipes. See also 772.14 Collodion processes in general

.47 Tungsten or wolfram processes

772.5 **Led group processes**
.52 Led processes
.53 Thallium processes
.6 **Tin group processes**
.61 General questions
.62 Tin processes
.63 Titanium "
.64 Zirconium processes
.65 Thorium "
.66 Actinium "
.7 **Vanadium group processes**
.71 General questions
.72 Vanadium processes
.73 Antimony "
.74 Bismuth "
.75 Tantalum processes
.76 Niobium or columbium processes
.77 Polonium processes
.8 **Magnesium and cerium group processes**
.81 General questions
.82 Berillium or glucinum processes
.83 Magnesium processes
.84 Zinc "
.85 Cadmium "
.86 Processes using salts of rare earths Cerium group processes
.87 Cerium processes
.88 Aluminum "
.89 Other rare earth processes
May be divided like 546.6 (except for cerium and aluminum), e.g. 772.897 Indium processes
.9 **Processes using other metallic salts**
772.93–.94 may be divided like 546.32–.432, e.g. 772.9432 Processes using radium salts

773 Processes using colord mixtures and powders Imbibition and dye processes Bicromate processes
Bicromated and pigmented gelatin processes. See also 772 Photografic processes based on use of metals, 778.5342 Color cinematografy, 778.5542 Cinematografic color projection, 778.6 Color photografy in general

SUMMARY

773.1	**Pigment and carbon processes**	.5	**Dye and anilin processes**
.2	**Powder or dusting-on processes**	.6	**Photoceramics Photoenamels**
.3	**Imbibition processes**	.7	**Processes using dye-forming organic compounds and sensitiv dyes**
.4	**Processes using organic compounds**	.8	**Oil pigment processes**
		.9	**Other**

773.1 **Pigment processes Carbon processes**
.11 General questions
.12 Mixtures sensitized by chromium salts
See also 772.42 Chromium printing processes in general
.121 General questions
.122 Without transfer
Mixture of colloid and pigment, gum-bicromate or 'bi-gum' printing processes (photomezzotint, photoaquatint, artigue, etc. processes; carbografs, multicolor or multiple gum printing, etc.) Colloid layer coated with pigment (bicromated gelatin-sugar printing processes, etc.) Ink bicromate, gallate of iron, Lemling, etc. processes (see also 773.15 Ink printing). Chromotipes, cuprotipes, etc.
.123 Carbon transfer or autotipe processes
Carbon transparencies, etc.
.124 Pressure processes
See also 777.5 Woodburitipes
.125 Chemic transfer processes
Marion gum processes, mariotipes; ozotipes; ozobrome (see also 773.8 Oil ozobrome processes), carbro, etc. processes
.127 Policrome carbon (3-color, etc. carbon) processes
.15 Mixtures sensitized by iron salts
Ink printing (Sella printing process, etc. See also 773.122 Ink bicromate processes). Gum printing on bromids. See also 772.21–.24 Iron printing processes in general
.2 **Powder or dusting-on processes**
With chromium, led, iron, etc. salts; with asfalt mixtures, etc. Resinopigmentipes, anthrakotipes, Askau pigment printing process, plumbago process, peppertipes, etc. See also in 772 Chromium, led, iron, etc. processes in general
.3 **Imbibition processes**
Using differential tanning: by action of light (hydrotipes, Donisthorpe process, pinatipes, photopoligrafy, contretipe negativs, etc.), by development (Jos-Pé, etc. processes). Using indirect chemic tanning (kodacrome, etc. processes). See also 778.66 Multiple color prints in 1 layer
.4 **Processes using organic compounds**
See also 773.7 Processes using dye-forming organic compounds
.5 **Dye processes Anilin processes**
.51 General questions
.52 Using chromium salts
Willis anilin process, etc.
.53 Using chromium and vanadium salts
Endemann anilin, anilin vapor, phototincture, tinctorial, Villain, etc. processes. Photodyeing on fabrics, etc., photocromatic printing, etc. Dye mordant images, dye toning (see also 770.2836 Toning in general, 771.545 Toning dyes). Dyed colloid reliefs; etc.
.54 Eikonogen printing processes

773.6 **Photoceramics. Photoenamels**
Ceramic processes, burnd in photografs, collodion or photografic enamels. Carbon or pigment, dusting-on, substitution, etc. photoceramic processes (for carbon or pigment and dusting-on processes in general see 773.1–.2). Lambertipes, etc. See also 777.2 Photorelief enamel processes

.7 **Processes using dye-forming organic compounds and sensitiv dyes**
Using leucobases of dyes (pinacromy, Koenig color process, etc.); diazo processes, diazotipes (primulin, ozalid, etc. processes; Kögel's 'Integral photografy', feertipes, etc.); using light-sensitiv dyes (bleach-out images, etc.); using dyes whose colors ar discharged in proportion to amount of chemic reagent present (chemic bleach-out images); using plant juices (nature printing; anthotipes, phisiotipes, etc.) See also 773.4 Processes using organic compounds in general

.8 **Oil pigment processes Pigmoil**
Bromoil (bromoil transfer, oil transfer, etc.); oil ozobrome (see also 773.125 Ozobrome processes in general)

.9 **Other**

774–777 **Photomecanical processes**

774 Photomecanical processes in general Processes with gelatin and printers ink
Process photografy, fatty ink processes on sensitized colloid surfaces, photoprints. See also 771.317 Process cameras

.1 **General processes Surface processes**
Collografic processes, collotipes, phototipes, photocollografs. Photofane, photoverrotipe, lichtdruck, etc. processes. Albertipes, artotipes, heliotipes, autocopyist processes, collogravure; sinop, indotint, etc. processes. See also 777.2 Photorelief collotipe enamel processes

.2 **Preparation of support**

.3 **" " sensitiv surface**
Sensitizing, drying, reticulation

.4 **Exposure to light Developing**
Camera operation; washing off unalterd bicromate and drying; preparing plate for printing or proofing, damping with glicerin, water, etc.

.5 **Printing Proofing or proving**
Materials, methods, etc. Plates, printing surfaces; rollers, presses; collotipe ink

.6 **Transfer processes**
Stripping, reversing, etc.

.7 **Special half-tone processes**
Photomezzotipe, collotipe phototint, etc.

774.8 **Color reproduction**
Special collotipe processes for color printing; chromocollotipes, chromocollografy, Vidal photografy, etc. See also 778.6 Color photografy

.9 **Other**
Processes for securing special designs; graf processes; photomecanical processes not using pressure

775 Photolithografy
Photografic printing on stone or analogous surfaces. See also 763 Lithografy

.1 **General photolithografic processes**
Bicromated colloid (glue, gelatin, albumin), bitumen, asfaltofotolithografic, etc. processes

.2 **Preparation of support**

.3 **" " sensitiv surface**
Sensitizing, etc. as in 774.3

.4 **Exposure to light Developing**
Dissolving and washing away undesired parts with water, turpentine, ether, alcohol, etc. Preparing stone for printing or proofing, damping, etc.

.5 **Printing Proofing or proving**
Materials, methods, etc. Printing surfaces, stone, etc.; rollers, presses; photolithografic ink; direct and offset photolithografy, etc.

.6 **Transfer processes Photolitho transfer**
Papirografy, papirotipe, papirotint; ink-photo, Shawcross amfitipe, etc. processes

.7 **Special half-tone processes**
Frey process, Eckstein lithofotogravure, etc.

.8 **Photocromolithografy**
Photomecanical color printing from stone. 'Autochrom', lithografic photoaquarel, photocrome, photo-autografy, lithografic autogravure, photo-oleograf, etc. See also 764 Chromolithografy, 778.6 Color photografy

.9 **Other**

776 Photometalografy
Surface printing from metal plates: photozincografy, photoalgrafy, photoaluminografy, etc. See also 763 Metalografy

.1 **General processes**
Using bitumen, chromium salt sensitizers, etc.; gisaldruck, etc.

.2 **Preparation of support**
Graining, etc.

.3 **Preparation of sensitiv surface**
Sensitizing, etc.

.4 **Exposure to light Developing**
Preparing plate for printing, damping, special etching to affect moisture retaining properties of surface, etc.

.5 **Printing**
Printing surfaces, zinc and aluminum plates; rollers, presses; photolithografic ink; direct and offset photometalografy, etc.

776.6 **Transfer processes Photometalografic transfer**
Ordoverax or true-to-scale process, etc.

.7 **Special half-tone processes**
Jaffétipe, photogranulotipe, etc.

.8 **Photocromometalografy**
Photomecanical color printing from metal plates, photostone. See also 764 Chromometalografy, 778.6 Color photografy

.9 **Other**

777 Photomecanical engraving
Photoengraving, photoetching

.1 **Photointaglio processes**
Photogliptografy, photogravure, heliogravure, photoaquatint. (See also 762 Intaglio engraving). Using a resist: photoglific engraving, autogravure, intagliotipe, etc. Photogravure by molding. Mecanical processes, chipping with burin or graver, hand and machine photogravure. Intaglio or inverted half-tone, lithografic photogravure. Galvanic photogravure: Obernetter lichtkupferdruck, etc. Etching on zinc (photo-zinco process), copper, bras, steel, glas (hyalofotografy), etc. Retuching, re-etching, finishing, routing, mounting, inking, printing or proofing. Rotary photogravure: Rembrandt process, mezzotintogravure, altogravure, similiheliogravure, Vandyke-gravure, etc. Plate graining, dusting, screen photogravure, etc.

.18 Color printing by photogravure
Photo-aquarel, mezzocrome, etc. See also 778.6 Color photografy

.2 **Photorelief processes Phototipografy**
Letterpres printing plates, line blocks, block processes. (See also 761 Relief engraving, 777.3 Half-tone processes) Bitumen (asfaltotipe), bicromated colloid, enamel (see also 773.6 Photografic enamels), etc. processes. Enameline, fish-glue, adamantin, collotipe (see also 774.1 Collotipe processes in general), etc. processes. Exposure; developing; etching (paniconografy, Gillotage, Gillotipe, etc.); printing or proving; photorelief transfer; etc.

.28 Photorelief color printing
3-color letterpres, etc. See also 778.6 Color photografy

.3 **Half-tone processes**
Discontinuous tone elements in photorelief printing. (See also 777.2 Photorelief processes in general). Half-tone screen processes: Dallastipe, Husnik leimtipe, isotipe, Swantipe; metzograf processes (expresstipie, luxotipe, etc.); wavy line, etc. processes. Reticulation processes: Dallastint, grain, etc. Mecanical cutting processes: acrograf, etc. Use of 2 or more negativs: Cocking phototint, etc.

.4 **Plate multiplication**
Photoelectrotiping, photogalvanografy. Electrofototipy, flexible metallic films, tithonotipes or tithnotipes, etc.

777.5 **Molding processes Photoplastografy**
Photostereotipes. Obtaining hollow or relief molds by solution, swelling, etc.; gelatin reliefs: Poitevin helioplastic process, Dallas rubbertipe, Mosstipe, etc.; plaster casts from photo-reliefs. Molding by pressure, galvanoplastic molds. General processes for obtaining prints with gelatinous ink: Woodburitipes, photogliptie (see also 773.124 Chromium pigment processes using pressure); stannotipes; Goupil gravure, etc. Gelatinous ink printing

.6 **Photofiligranes Photolithofanes**

.7 **Photosculpture**
Photografs in relief, photografic basreliefs, cameos, etc.

.8 **Photoxilografy**
Photografs on wood, xylofotografs. See also 761.2 Wood engraving

.9 **Other photoengraving processes**

778 Special applications Applied photografy

SUMMARY

778.1	Industrial reproduction Copying	.4	Stereoscopic photografy
.2	Photografic projection	.5	Cinematografy
.3	Scientific applications: photomicrografy, telefotografy, radiografy, photosurveying, etc.	.6	Color photografy
		.7	Photografy under special conditions
		.8	Photografic recreations and illusions
		.9	Other applications

.1 **Industrial reproduction Copying**
Documentary photografy. (For copying and enlarging cameras see 771.318) Special processes for reproducing documents; luminografy, etc. (see also 778.39 Reflex photografy). Rectification of distorted images: parallelism, photocorrector, etc. Copying special types of objects; e.g. black and white work (engravings, line drawings, etc.), photografs (photogravures, collotipes, half-tone prints, etc.), colord objects, paintings, etc. (see also 778.6 Color photografy)

.11 General questions

.12 Reproduction in same scale as original
By direct printing, contact processes; copying industrial drawings: reflection copying processes (catafotografy, reflectografy, playertipes), anastatic processes, etc. By camera: using ultraviolet light, etc. See also 621.3827 Facsimile telegrafy, 744.53 Blueprint and photostat reproduction of drawings, 770.2854 Negativ duplication

.13 Enlarging Macrofotografy
Megatipes. Daylight, solar, artificial light, etc. enlarging. Enlarging by stripping (see also 770.2853 Film stripping). Gigantografy, etc. For enlargers see 771.318

.14 Reduction
See also 778.315 Microfotografy

778.2 Photografic projection

See also 771.318 Projection printers, 771.46 Viewing apparatus, 778.45 Stereografic projection, 778.55 Cinematografic projection, 778.65 Photografic color projection

.21 General questions

.22 Projection apparatus Projectors Lanterns

Optic or magic lantern, stereopticon, for projecting transparencies; epidiascope, for projecting images of translucent objects; aphengescope, opake lantern, episcope, for projecting images of opake objects (megascope, Kruss magic camera, poliopticon, auxanoscope, mirroscope, etc.) Lantern body, lamp housings and optic system or parts: lenses, condensers (see also 771.442 Photografic condensers), reflectors, objectivs, etc.

.23 Lantern illuminants

Special sources of light for projectors. May be divided like 771.44, e.g. 778.237 Electricity

.24 Projection screens

Including screen carriers, holders, frames, etc.

.25 Positivs and illustrations for projection

For viewing by transmitted or by reflected light. Transparencies, lantern slides, films, diapositivs, cristalotipes, hyalotipes, diagramatic lantern slides, catapositivs, etc.

.26 Projection accessories

Slide carriers or holders, carrier stages, slide changers and changing devices, focusing apparatus, flasher or lens caps, heat absorbers, lantern curtains, etc.

.27 Types of projections Operativ details

Projection of optic lantern views (operations with transparencies), of dissolving views, of epidiascopic views (operations with translucent illustrations and objects), of opake lantern views (operations with episcopic views)

.28 Texts to accompany projections

.29 Other topics

.3 Scientific applications Scientific photografy

.31 Photomicrografy

Photografy of minute objects by aid of microscope. Including general discussions of the use of the microscope in photografy. Apparatus, processes, etc. See also 578 Microscopy, 778.56 Cinematografic microfotografy and photomicrografy

.315 Microfotografy

Production of photografs of microscopic size by use of microscope. See also 778.14 Reduction

.316 Color photomicrografy and microfotografy

See also 778.6 Color photografy

.32 Telefotografy

See also 771.352 Telefoto lenses

778.33 Radiografy X-ray (Röntgen ray) photografy

Skiagrafy, cathografy. Apparatus, processes, etc. X-ray cinematografy (see also 778.5 Cinematografy in general), stereoscopic radiografy (see also 778.4 Stereoscopy in general), etc. See also 537.53 X-rays as electrical phenomena in Phisics

.34 Fluorescent screen photografy

Invisible ray photografy by means of fluorescent screens. Effluviografs, skotografs, etc. Ultraviolet and infra- or ultrared photografy. See also 771.5345 Effects of emanations and vapors on sensitivity

.35 Aerial photografy

Aerial cameras, etc. See also 629.1356 Photografic equipment in Aeronautics, 771.316 Panoramic cameras, 778.38 Photogrammetry

.36 Panoramic photografy Wide angle work

See also 771.316 Panoramic cameras, 771.352 Wide angle lenses

.37 High speed photografy

Instantaneous photografy, snapshots. See also 771.36 Shutters

.38 Photogrammetry Photosurveying

Photografic mesuring. Phototopogravure, photografic map reproduction, photogrammetry of moving objects (see also 778.5 Cinematografy). See also 526.9 Surveying, 778.35 Aerial photografy

.39 Other scientific applications

Reflex photografy, etc. See also 778.1 Special processes for reproducing documents, luminografy, etc.

.4 Stereoscopic photografy Stereoscopy

Reproduction of relief. See also 778.33 Stereoscopic radiografy, 778.5341 Stereoscopic cinematografy

.41 General questions

.42 Stereofotografic apparatus Stereoscopic cameras

Stereofotoduplicon, stereoscopic transmitter, verascope; special printing apparatus, self-transposition frames, etc. See also 771.315 Binocular cameras, 778.5341 Special apparatus for stereoscopic cinematografy

.43 Practical operations

Stereoscopic prints and transparencies, stereograms, stereografs, anaglifs, hyperstereoscopy, hypertelestereoscopy, etc.

778.44 Stereoscopic viewing apparatus
Stereoscopes, directoscopes, cosmorama stereoscopes, stereoscopic spectacles, anaglifoscopes, etc. See also 771.46 General 2-lens viewing apparatus

.45 Stereoscopic projection
Special apparatus, etc. Direct, indirect (projected images viewd thru special intermediate devices: colord glasses, prisms, mirrors, shutters, etc.). See also 778.2 Photografic projection in general, 778.5541 Stereoscopic projection of moving pictures, 778.65 Photografic color projection

.48 Applications of stereoscopy
See also 778.5341 Stereoscopic cinematografy, 778.65 Stereoscopic color processes

.5 Moving picture photografy Cinematografy
Study and apparent reproduction of movement by photografy. Successiv photografs of moving objects, animated pictures. See also 771.125 Cinematograf studios, 771.295 Furnishings of cinematograf laboratories and studios, 778.33 X-ray cinematografy, 778.38 Photogrammetry of moving objects

SUMMARY

778.51	**General questions**	**.55**	**Cinematografic projection**
.52	**Chronofotografy**	**.56**	**" photomicrografy**
.53	**Cinematografic photografy**	**.58**	**Special preparation of cinematograf films**
.54	**Direct vision apparatus**		

.51 General questions

.52 Chronofotografy Photocronografy
Successiv photografs taken at known intervals. Apparatus and processes. Special cameras: gun and revolver cameras. Viewing apparatus: zoetrope or wheel of life; phenakistoscope, stroboscope, fantascope or kaleidorama; anorthoscope, tachiscope, theatrograf, zoopraxiscope; stereoscopic zoetrope, praxinoscope, animatograf, etc.

.53 Cinematografic photografy
Moving picture cameras, photoplay photografy, kinetocameras, kinotografs. For general questions see 778.51

.531 With intermittent motion mecanism
Dog (Demeney chronophotographe, etc.), Maltese cros, pin, etc. movements

.532 With continuous motion mecanism
Mutograf, etc.

.533 Special parts and devices of cinematografic cameras
Feeding devices and guides, sprockets, guide rollers, etc.; gates, image centering devices; shutters; film boxes or magazines; lens holders; control and winding devices, windups; film bobbins, reels or spools; safety devices, ventilation; antistatic devices; indicators, etc.

778.534 Special aspects of cinematografy
Multiple images on normal picture area, composit pictures, plate cinematograf cameras, high speed and slow motion cameras, trick films, etc. See also 778.554 Special aspects of cinematografic projection. Clas here discussions common to both

1 Stereoscopic cinematografy
Reproduction of relief in moving pictures. See also 778.4 Stereoscopy in general

2 Color cinematografy
Kinemacolor cameras, etc. See also 773 Processes using colord mixtures, etc., 778.6 Color photografy in general

3 Endless film cameras

4 Talking films
Moving pictures with sound. See also 534.4 Analisis of sounds

9 Home and hand cinecameras
Amateur and private cinematografy

.535 Taking texts and titles for cinematograf films

.538 Taking special subjects
May be divided like the whole classification, e.g. 778.53807 Newsreel photografy

.54 Direct vision apparatus
Living or animated pictures. Kinetoscopes (Edison's, etc.) Moving pictures on rectangular plates, round disks or cylinders, etc.; in book form; on radiating or turning leavs, mutoscopes, etc.

.55 Cinematografic projection
Moving picture projectors. For photografic projection in general see 778.2

.551 Intermittent projectors
Kammograf, etc.

.552 Continuous projectors
Biograf, bioscope, etc.

.553 Special parts and devices of cinematografic projectors
Condensers, illuminating systems, projection screens, etc. For scope of this number see note under 778.533

.554 Special aspects of cinematografic projection
Film splicing; linking cinematografic with other apparatus; plate projectors; projectors that can be slowd or stopt for projection of single pictures; advertizing projectors, etc. See also 778.534 Special aspects of cinematografy in general, where discussions common to both should be clast

Stereoscopic projection of moving pictures
For stereoscopic projection in general see 778.45

778.5542 **Projection in colors Color films**
Kinemacolor projectors, etc. Stencil, coloring and dyeing processes, etc. For photografic processes using colord mixtures, etc. see 773. See also 778.58 Retuching cinematograf films, 778.65 Photografic color projection in general

3 **Endless film projection**

4 **Projection of talking films**
See also 534.4 Analisis of sounds

9 **Home cineprojectors**

.56 Cinematografic microfotografy and photomicrografy
Spiroscope, spirograf. See also 778.31 Microfotografy in general

.58 Special preparation of cinematograf films
Assembling; mounting; mecanical preparation, perforation; verification, inspecting apparatus; modification of pictures, retuching (see also 778.5542 Coloring films); drawn films, with images and designs drawn by hand or machine (see also 741.58 Drawing of moving picture cartoons); lubrication; cleaning, polishing, varnishing; copying, darkening over, adding supplementary titles and script; etc.

.6 **Photografy of colors Color photografy**
Chromofotografy, heliocromy, natural color photografy, photocromatic processes, policromatic photografy; actinopolicromes; color cameras, etc. See also

771.356 Color filters
.5342 " sensitivity
773 Pigment, imbibition, dye, etc. processes
774.8 Collotipe color printing
775.8 Photocromolithografy
776.8 Photocromometalografy
777.18 Color photogravure
777.28 Photorelief color printing
778.1 Copying colord objects
.316 Color photomicrografy
.5342 " cinematografy
.5542 Cinematografic color projection

.61 General questions

.62 Photografic rendering of color tones
Rendering colors in monocrome. Isocromatic, orthocromatic, orthoskiagrafic; pancromatic; color contrast, etc. photografy. See also 771.5342 Color sensitivity

.63 Direct photografic color reproduction
Direct heliocrome. Becquerel, Hillotipe, Hunt, Kopp, Poitevin, Seebeck, etc. color processes

.64 Color photografy by interference and bending of light waves
Heliocromy by interference (Lippmann process, iridescent heliocromy, etc.), by prismatic or optical dispersion, by diffraction (Wood diffraction grating process, etc.)

778.65 Additiv processes
Photografic color projection. Subjectiv processes (Baudan, Ives, etc. color processes; chromograms, chromoscopes, kromskops, etc.); additiv projection in triple lantern; stereoscopic color processes, etc. See also 778.2 General photografic projection, 778.4 Stereoscopy and stereoscopic projection in general, 778.5542 Cinematografic color projection

.66 Subtractiv processes
Color reproduction by superposition of single monocrome impressions, etc. Processes using separate color filters and plates. Screen unit or screen plate color photografy: Dufay diopticrome, omnicolore, dusting-on, starch grain, lumière autocrome, agfa, etc. processes. Methods of registering screen unit plates (rotary screens, etc.). Stencil processes. Prints from colord plates: superposed transparencies, superposed images on opake supports (paper, etc.), multiple color prints contained in 1 layer (see also 773.3 Imbibition processes), prints from screen plates, etc. Dicromatic or 2 color processes (bipacks); tricromatic or 3 color processes (tripacks); multicolor processes (multipacks, citrocrome, etc.)

.68 Viewing apparatus
Special devices for viewing color photografs: autocromediascopes, etc.

.7 **Photografy under special conditions**

.71 Outdoor, open air and field photografy

.72 Indoor photografy

.73 Submarine photografy
Photografy of immerst objects

.75 Photografy in special climatic conditions
May be divided like 551.5; e.g. 778.752 Photografy under special conditions of temperature: arctic or cold, temperate, tropic or hot wether photografy

.8 **Photografic recreations and illusions**
Trick and freak photografy. Caricature photografy, distorted photografs (anamorfosis, photo-anamorfoscopes, etc.); multiple photografs of same object (polipose portraits, doubles, etc.; see also 771.3191 Multiplying apparatus); photografs of specters and illusions (psichic or thought photografy); photografs of exhalations, unexplaind effects, retinal impressions, etc. (psicografy, etc.); magic and sympathetic photografs (photografic barometers); silhouet photografy; luminous or phosforescent photografs (ephemeral photografy, etc.); composit portraiture (analitic or average portraiture, etc.). See also 771.352 Lenses for securing multiple or distorted images

.9 **Other applications**
May be divided like the whole classification for applications not classifiable elsewhere

779 Collections of photografs
May be divided like the whole classification, e.g. 779.2 Religious photografs

780 Music

All heds include the music itself and everything about it: score, libretto, history, criticism, etc. but, if preferd, the music itself may be separated from the works about it by prefixing to its clas numbers an M, with MS for sheet music

.07 Relations of individuals and public bodies
See also 781.91065 Instrument makers

.071 Musicians Music as a profession
Writings relating to persons interested in music: their caracter, life, condition, duties, activities; professional ethics. Only general and theoretic works ar clast here. For biografy see 927.8 or 780.92

1 **Composers**

2 **Interpreters and performers**
Bards, minstrels, troubadours, trouvères, minnesingers, meistersingers

3 **Prodigies**

.072 Critics Writers on music Music criticism in general
Analisis
Analitic guides (program notes) of a general theoretic nature ar clast here; those relating to collected works of a special composer or to a single work ar clast with the corresponding works or work

.073 Amateurs The public

.074 Private patronage

.075 Official patronage Government subvention

4 **Registration of musicians, examination, standardization etc.**

.1 **Philosofy Esthetics Appreciation**

.13 Value Usefulness
Music in the home

.2 **Compends**

.3 **Dictionaries Cyclopedias**

.4 **Essays Addresses Lectures**
General collections. Essays etc. (either singly or collected) on a special topic ar clast with that topic

.5 **Periodicals**

.58 Year books Directories

.59 Kalendars Almanacs

.6 **Associations Societies Clubs**

.63 Congresses

.65 Commercial establishments Music stores
See also 780.85 Commercial circulars

.7 **Education Study and teaching**

.72 Music conservatories, schools, courses
Including methods of teaching music in general schools. For place of music in curriculums see 375.78
Geografic arrangement may, if wisht, be secured by uzing .729, divided like 930-999

.73 Concerts Concert programs
Geografic arrangement may, if wisht, be secured by uzing .739, divided like 930-999

.77 Instrumental and other methods distinctly suited to music
Dictation, ear training, pitch perception, eye training, music reading, sight reading
For general works; methods for a special instrument ar clast under number for that instrument

780.79 Music gatherings
Competitions. Festivals; festival programs
Divided like 930-999
For Vocal music see 784.5

.8 **Polygrafy Collections Quotations**

.81 Individual

.82 Collectiv

.821 Libraries or series

.822 Quotations from several authors

.85 Commercial circulars
For catalogs of music sec 781.973; for instruments see 781.91; see also 780.65 Commercial establishments

.88 Varia

.881 Romances, poems, various literary fantasias on music and musicians

.883 Curiosa, anecdotes, critical and historical miscellany

.89 Volumes individually prepared
Made by binding together independent publications too miscellaneous to be clast more specificly; e. g. volumes of miscellaneous programs. Separate programs ar better clast with concert, festival, special production, etc.

.9 **History and other general local treatment**

.92 Music biografy
Preferably clast with other biografy

.93–.99 Music in special countries
Divided like 930-999

781 Theory and technic of music

.1 **Scientific theories**
Mathematics, physics, physiology, psychology of music. Colored audition. Acousties. See also in physics 534 Sound

.2 **Elementary and general**

.21 General principles of music Music grammar

.22 Sound, from music viewpoint
Tonalities, cords, intervals, scales, pitch

.23 Nomenclature Terminology
For discussion; music dictionaries ar clast in 780.3

.24 Music notation
Music writing and stenografy. Notation in key of sol, fa, do, etc. Mesures, sistems of notation, neumes, tablature, music notation in cypher, notation for the blind. Reform proposals

.3 **Harmony Thorobass**
General bass, figured bass. Modulation

.4 **Counterpoint**
Canon. Fugue. Melody, melodic structure, melopoeia

.5 **Music form Kinds of music**

.508 Different kinds of instrumental music
08 and its subdivisions may be combined with different instruments; e. g.
786.2 Piano
786.20813 Minuets for piano
Selections from complete works, religious or theatric, ar clast with those works
For kinds of song see 784 Vocal music

781.508
1 **Movements of instrumental music**
11 Allegro Presto Vivace
12 Andantino Andante Lento Adagio **Largo**
13 Minuet Scherzo Allegretto Rondo
14 Finale
2 **Different instrumental compositions**
Each of following divisions is divided like 781.5081; **e. g.**
781.508223 Sonata minuets
786.208223 Sonata minuets for piano
21 Symphony as a music genus
22 Sonata Sonatina
23 Chamber music
3 **Forms of music**
31 Suite
32 Variation
33 Fantasia Arabesque Toccata Moment musical
34 Nocturne Meditation Songs without words
38 Adaptations Arrangements Potpourris
4 **Marches Pieces of martial step**
5 **Dances**
51 Old dances
Minuet, allemande, courant, pavan, etc.
52 Parlor dances Quadrils
521 Waltz
522 Polka
523 Mazurka
524 Polonaise
525 Quadril
526 Lancers quadril
527 Schottische
528 Galop
529 Other
53 Theater ballets
54 Juvenil dances
See also 796.13 Singing, dancing and marching games
57 National and caracter dances
See also Indoor entertainment 793.31
579 Special countries
Divided like 930–999
58 Artistic dances
See also Indoor entertainment 793.32
6 **Overtures Entr'actes Interludes**
.6 **Composition and execution**
Composition of a special kind of music is clast with that kind
.61 Composition in general
.62 Rhythm and meter Relation of poetry to music
.63 Execution
.631 Instrumentation
.632 Orchestration
5 **Profession of orchestra leader Direction of orchestras**
7 **Lyric and instrumental execution**
Interpretation of vocal and instrumental music

781.633 Instruments and voices
Score reading and playing. Memorizing Phrasing
.64 Adaptation Resolution Instrumental reduction Arrangements Transposition
.65 Improvisation
.66 Accompaniment
.67 Embellishment
.7 **Theories and forms: racial, national, etc.**
For works treating of *theory and form* from viewpoint distinctly racial, national, etc
See also 780.9 History and other general local treatment
Divided .71 Primitiv and savage peoples, .72 Peoples not otherwize provided for (e. g. gipsies), .73–.79 like 930–999 but, if wisht, ancient music may be clast under .8 divided like 930
.8 **Ancient music: theories, modes and forms**
Divided like 930; see last note under 781.7
.9 **Various questions**
.91 Music instruments in general
Temperament and harmony. Manufacture, repair, verification
Whatever concerns a group of instruments or an individual instrument is clast under corresponding division of 786–789
.91065 Makers Manufacturers
74 Museums and collections
.94 Different kinds of music in general
.95 Music curiosities
Music among animals; bird songs. See also 598.2 Birds
.96 Music literature in general
For general works. Librettos etc. for individual composers or works or groups of works ar preferably clast under corresponding numbers
.961 Works of dramatic authors
Libretttos, scenarios, opera poems, etc.
.962 Theater pieces with wel-known airs
Vaudevils, etc.
.963 Librettos or ballet poems
.964 Librettos or oratorio and secular cantata poems
.965 Librettos on sacred subjects
.969 Manuscripts, autografs, etc. of musicians
Preferably clast with subject, or, if chiefly interesting as manuscripts, in 091
.97 Music bibliografies
Only catalogs of music itself ar clast here. Bibliografy of writings relating to music is clast in 016.78
.971 General bibliografy of musical works
.973 Catalogs Lists of definit sources
1 **Public libraries**
2 **Private libraries**
3 **Auction catalogs**
4 **Publishers and dealers**
5 **Works of special composers**
.98 Publication
.981 Engraving Typografy Printing
.982 Publishing
.983 Sale Commercial questions
See also 780.65 Commercial establishments; 780.85 Commercial circulars

782 Dramatic music Theater music

As an alternativ to use of following subdivisions, all operas etc. may be arranged in a single alfabet by name of composer, or all grand opera may be so arranged under 782.1, or, with this latter as the general treatment for grand opera, an exception may be made by uzing 782.2 for Wagner, with works under this number arranged according to Special author tables printed on last pages after Relativ index
Selections for either voice or instruments may be clast here with the original works or, if preferd, under 784.21 Song selections, or with the different instruments

.08 Polygrafy Collections
Including collections of analises of and stories from operas by various composers. Analises of or stories from several works of a single composer or a single work ar clast with the works or work

.1 Grand opera
.2 Epic Wagnerian
.3 Other German grand opera
.4 French grand opera
.5 Italian grand opera
.6 Comic and satiric
.7 Opera bouffe
.8 Operettas and secular cantatas Vaudevils
For sacred cantatas see 783.4
.84 Parodies
.9 Pantomimes, masks, etc.

783 Church music Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9; 786.8 Organ; 246.7-.8 Evangelistic use and Eucharistic music; 264.2 Public worship

.1 Organ and orchestral Accompaniment
.2 Liturgic music
.21 Mass Communion servises
Annotated missals
.22 Common of the mass: kyrie, gloria in excelsis, credo, sanctus, benedictus, Agnus Dei
.23 Proper of the season: offertory, gradual, tract, sequence
.24 Choral servis: antiphonal, responsiv
Vespers, Complins
.25 Plain song
.26 Litanies
.27 Lenten and penitential: Good Friday, reproaches
.28 Liturgic dramas and mysteries
Festivals: Christmas, Easter etc.
.29 Solemnities Solemn masses Solemn marches
Requiem masses. Processionals. Recessionals
.3 Oratorio Passion music
.4 Anthem Motet Sacred cantata
Polyphonic school, Palestrina. 16th century
.5 Chant: Gregorian, Anglican
.6 Chorale Tune Carol
.65 Christmas carols and popular canticles

783.7 Evangelistic: mission, revival Sunday school
.8 Choir: men and boys Quartet Chorus
.9 Congregational singing Psalmody Hymnody

784 Vocal music

With or without accompaniment
Dramatic music is clast under 782 and sacred music under 783
Vocal music is divided by kinds and if under each kind further subdivision is needed it may be made (1) by number of parts, (2) by kind of voice, according to table below, e. g. 784.306231 Duet ballads for tenor voices

.061 Solos
1 **Children**
2 **Women**
21 Soprano
23 Mezzo soprano
26 Contralto
3 **Men**
31 Tenor
32 Baritone
33 Bass
.062 Duets
.063 Trios
.064 Quartets
.065 Quintets
.066 Sextets
.067 Septets
.068 Choruses
1 Children only
2 Women "
3 Men "
4 Mixed choruses (men, women and children)
5 Vocal parts with choruses
.1 Glee Madrigal Round Catch
.2 Aria Cavatina Recitativ
e. g. in oratorio, mass, opera. Preferably clast with works from which they ar taken
.21 Extracts from theatric music scores
.22 " " masses and sacred music
.23 " " oratorios
.25 Recitativs Declamations with music Melologs
.3 Vocal chamber music
Ballads, songs, melodies: romantic, idyllic, sentimental. Dance songs
.35 Canzonets
.4 Folk songs
Songs of the soil, cowboy songs, sea songs, chanteys, drinking songs
See also 783.65 Christmas carols and popular canticles, 784.71 National airs, songs and hymns
49 By country Divide like 930–999
5 Festival; e. g. sängerbund, eisteddfod Competitiv

784.6 Student songs Society songs Choruses Community singing

.62 Student songs School songs

.622 College songs
Including those of professional and technical schools

.623 Secondary schools

.624 Elementary schools
Including children's songs in general

.625 Kindergartens
Preferably clast with Kindergartens, in '372.2152 Songs

.66 Societies
Masonic songs, etc. If *purpose* of society is emfasized rather than society itself clas under 784.68

.67 Corporations and trades

.672–.6799 Special trades
Divided like 620–699. For those not included in 620–699 uze 784.671 divided like main classification

.68 Topical songs
e. g. temperance, labor, baseball
Divided like main classification

.7 Other kinds of songs

.71 National airs, songs and hymns
Patriotic and political songs, martial songs

.719 By countries
Divided like 930–999

.75 Exotic songs

.752 Gipsy songs

.756 Negro " Negro minstrelsy Plantation songs

.8 Collected songs
.81–.85 may be subdivided like 784.061; e. g. 784.8131 Collection of tenor solos, 784.8231 Collection of tenor duets

.81 Solos

.82 Duets

.83 Trios

.84 Quartets

.85 Other part songs

.86 Choruses
Subdivided like 784.068

.87 Collections for male voices

.88 Collections for female voices

.89 Other special collections

.9 Art of musical expression
Technic and studies

.91 Generalities

.92 Physiology of voice and vocal organs
See also in physiology 612.78 Voice and speech

.93 Hygiene and vocal gymnastics
Voice culture, breathing, pronunciation
See also 808.5 Oratory

.94 Special methods or forms of musical expression
Tonic-sol-fa; tone formation, vowel exercises, solfeggios

.95 Applications to dramatic art

.96 Performance in concert Choruses

785 Instrumental ensemble
Symphonic and instrumental music. Grouping of instruments

.1 Orchestral music
For dramatic orchestral music, see 782; sacred, 783.1

.11 Symphony
Three or more movements; e. g. adagio, andante, allegro, allegretto, scherzo, finale, etc. Tone poems

.12 Wind instruments and bras band

.121 Wind instruments

.122 Bras band

.13 Military music

.15 Music of the chase

.2 Music for orchestra, with voices
For dramatic orchestral music see 782

.21 Symphonic singing Secular oratorios

.22 Dramatic, illustrativ, descriptiv, program, imitativ
e. g. Mendelssohn's Midsummer night's dream

.3 Romantic, idyllic

.4

.5 Overture: e. g. Beethoven's Leonores

.6 Concerto: orchestral with solo instrument

.7 Chamber music
Music suitable for a private house or small hall; written for several instruments playd in concert, from duets to nonets, without trying to make a special instrument distinctly prominent
Chamber music is divided by parts as follows:

.72 Duet	.76 Sextet
.73 Trio	.77 Septet
.74 Quartet	.78 Octet
.75 Quintet	.79 Nonet

.8 Suite

.9 Arrangements, transcriptions, potpourris

786 Keyboard instruments

.1 Instruments playd with strings and keyboard

.2 Piano

.22 History

.221 Erly forms Forerunners
Harpsicord, clavicord, spinet, virginal

.23 Manufacture Tuning Temperament Repairing

.3 Instruction

.31 Hand

.32 Touch

.33 Scales

.34 Octaves Cords Arpeggios

.35 Pedal

786.4 **Piano music** **General collections**
For piano concerto, see 785.6
.41 Sonata Sonatina Rondo
.42 Fantasia Arabesque
.43 Nocturne Meditation Romantic Descriptiv
Songs without words
.44 March and march form Polonaise Polka Mazurka
.45 Dance form: national, classic, idealized
.46 Modern dance music Society, festiv
.47 Artistic études For études for instruction, see 786.3
.48 Variations, transcriptions
.49 Arrangements
Four hands and more; e. g. orchestral music arranged for piano
.5 **Instruments with stops and air chambers**
.6 Organ
.62 History
.63 Bilding
.7 **Instruction**
.8 **Organ music** See also 783 Sacred music
.81 Sonata
.82 Fugue
.83 Preludes
.84 Interludes
.85 Postludes
.86 Offertories
.87 Voluntaries Improvisations
.88 Organ and piano
.89 Organ, piano, and orchestra
.9 **Parlor organ** **Cabinet organ** **Melodeon**

787 Stringd instruments

Including with each, history, manufacture, instruction, music, etc. Music for 2 instruments is put with the one most prominent in the composition. For keyboard stringd instruments see 786.1

Bowd

.1 **Violin**
.2 **Viola**
.3 **Violoncello**
.4 **Other**
.41 **Double bass** **Contra bass**

Plectral

.5 **Harp**
.6 **With strings and fingerboard** **Lute**
.61 **Guitar**
.65 **Mandolin**
.7 **Banjo**
.8 **Zither**
.9 **Other**
Ukelele, hurdy-gurdy, etc.

788 Wind instruments

Including with each, history, manufacture, instruction, music, etc.

Bras

.1 **Trumpet**
.2 **Trombone**
.3 **Cornet**
.4 **Horns and other bras wind instruments**
.41 French horn Hunting horn
.42 Saxhorn
.43 Saxophone
.44 Euphonium
.45 Ophicleide
.46 Key bugle
.47 Valv bugle
.48 Bass Tuba and contrabass tuba Serpent
.49 Other

Wood: flute group

.5 **Flute** **Waldflute** **Piccolo** **Fife** **Flageolet**

Wood: reed group

.6 **Clarinet** **Bass clarinet** **Bassethorn**
.7 **Oboe** **D'amore** **Da caccia** **Cor anglais**
.8 **Bassoon** **Double bassoon** **Bombardon**
.9 **Other reed wind instruments: bagpipe, alpenhorn, etc.**

789 Percussion and mekanical instruments

Percussion

.1 **Drum**
.2 **Cymbals**
.3 **Triangle**
.4 **Tambourine** **Castanets** **Bones**
.5 **Bels: chimes, carillon**
See also 654.7 Bel manufacture
.6 **Other percussion instruments: xylofone**

Mekanical

.7 **Barrel organ** **Orchestrion**
.8 **Music box**
.9 **Other mekanical instruments**
Mekanical pianos, phonografs, etc. Musical glasses

790 Amusements

For ethics of amusements, see 175

791 Public entertainment

Including summer resorts, amusement parks and museums discust from standpoint of public entertainment
For wrestling and other athletic sports see 796.8. For customs see 394

.1 **Traveling shows**
Clowns, mountebanks, jugglers, tightrope walkers, rope dancers; conjuring, ventriloquism, ministrel shows
For private performances see 793. For circuses see 791.3

.2 **Concerts** **Floral games**
Music and poetry competitions

.3 **Circuses**
Hippodromes, horse shows, cirsensian games

.4 **Panoramas** **Magic lanterns** **Moving pictures** **Radio**
Clas here general works on moving pictures as entertainment. For fotoplays see 792. For moving pictures as method of education see 371.33523

.5 **Waxworks** **Miniature theaters** **Shadow pantomimes**
Marionets, puppets, Punch and Judy

.6 **Public fêtes**
Fairs, pageantry, historic pageants, Mardi Gras, parades, cavalcades, illuminations, fireworks

.7 **Public games and sports**
Jousts, greast poles, see-saws, swings, merry-go-rounds, roller coasters, rinks

.8 **Menageries** **Traind animals**
Animal sports. Combats between and against animals: wrestling bears, bull-fights, dog fights, baiting badgers, cat and rat fights, cock fights, etc.
Traind or trick animals. For horse racing see 798.4; for racing other animals, 798.8
For zoologic gardens see 590.7

.9 **Other**

792 Theater Stage Dramatic art

Fotoplays. See also 782 Dramatic music; 793.1 Private theatricals. For architecture of theaters see 725.82; for dramatic literature see appropriate subdivisions under 800

.1 **Serious drama** **Tragedy**
Passion plays, miracle plays, morality plays

.2 **Comedy** **Vaudevil**

.3 **Farce** **Pantomime**

.4 **Opera** **Lyric drama**

.5 **Comic opera**

.6 **Operetta and musical comedy**

.7 **Music halls**
See 725.81

.8 **Ballet** **Fairy scenes** **Choreografy**

.9 **Other**

793 Indoor entertainment Parties

Including lawn parties, etc.

.1 **Private theatricals**
See also 792 Theater

.2 **Entertainments requiring preparation**

.22 Seasonal entertainments
Autumn, Christmas, Washington's birthday, May day

.24 Tableaux Charades
Living statuary, acted proverbs, game of caracters

793.3 **Dancing**
For choreografy and ballets see 792.8; for children's dances see 796.13

.31 Folk dances National dances
See also Music 781.50857

.32 Artistic dancing
Theatric dancing. Caracteristic dances. Classic dances: old Greek dances. Old French dances: minuet, gavot. For dances of North American Indians see 970.6
See also Music 781.50858

.33 Dances for 2 persons
Round dances: polka, waltz, mazurka, redowa, schottish, 2-step, tango etc.

.34 Dances for more than 2 persons (without accessory features)
Quadril, 4-step, lancers, Virginia reel, etc.

.35 Dances (with accessory features)
Cotillion, german, sword dance, etc.

.38 Balls
.3808 Programs, german cards, etc.
.382 **Court or state balls**
.384 **Public balls**
.386 **Mask and fancy-dress balls**

.4 **Games of action**
Blindman's buf, hot cockles, hunt the slipper

.5 **Forfeit and trick games**

.7 **Games not caracterized by action**

.71 Instructiv games
Including memory games
Alliteration, authors, logomachy, observation, spelling match, etc.

.72 Games of quick wit
Fish, flesh and fowl; prohibited words; etc.

.73 Guessing games Riddles Conundrums Puzzles
Identification, crambo, acrostics, anagrams, rebuses etc. For charades see 793.2

.74 Mathematical games
Including games requiring calculation
Quadralets, magic squares, etc.

.75 Table games
Angling, bobéchon, jackstraws, tiddledewinks etc.

.76 Ring games
Button, button; compliments; nonsense; scandal; etc.

.8 **Parlor magic**
Scientific amusements, including pseudoscience

.9 **Other indoor diversions**

794 Games of skil

.1 **Ches**

.2 **Checkers and similar games**
Drafts, gobang, agon, fanorona, halma etc.

.5 **Marble solitaire** **Peg solitaire**
For card solitaire see 795.43

.6 **Bowling** **Skittles** **Ninepins** **Tenpins**
For lawn bowling see 796.31

.7 **Indoor ball games: cue, mallet, racket**
Billiards, pool, carom, troco

795 Games of chance

.1 **Games with dice and bones**
Game of goose, tricktrack, backgammon, revertier

.2 **Wheel and top games**
Teetotum, roulette, steeplechase
For steeplechase, with significance of cross-country racing, see 798.45

.3 **Games dependent on drawing numbers or counters**
Lotto, biribi, keno, dominos, matador, mah jong

.4 **Card games**

.41 Games of skil
Piquet, imperial, écarté, euchre, triumf, poker, whist, omber, reversis, cribbage. Boston, skat, bridge, auction bridge, solo etc.

.42 Games of chance
Gleek, 31, rouge et noir, 30 and 40, Pope Joan, lansquenet, baccarat, faro, monte, truth, etc.

.43 Games based on position and skil
Patience, card solitaire, card tricks
For fortune-telling by cards see 133.324

.5 **Games dependent on articles tost or rolled**

796 Athletic and outdoor sports and games

Public playgrounds and athletic fields. For school games and athletics see 371.74

.00037 Rules, umpires etc.

.01 **Theory Purpose Value**

.02 **Compends**

.03 **Dictionaries Cyclopedias**

.04 **Essays Addresses Lectures**

.05 **Periodicals**

.058 Annuals Directories

.06 **Associations Societies Clubs**

.063 Congresses Conferences

.07 **Education Training Coaching**

.08 **Polygrafy**

.09 **History**
Divided like 930–999

.1 **Children's games Open air play**
See also under Kindergarten 372.215

.11 Games for smallest children
For toys and nursery play see 649.55

.12 Children's sand and seashore amusements

.13 Singing, dancing and marching games
Ring games, rounds and dances
See also Music 781.50854

.14 Activ games Chasing games
Leap frog, somersault, hide and seek, puss in corner, prisoner's base, etc
Counting-out games

.15 Aerial toys
Kite flying, aeroplanes, balloons

796.2 **Activ games with appliances**
For ball games see 796.3

.21 Shovelboard, hopscotch, swing, hoop, skipping rope

.23 Minor ground games
Marbles, jackstones, mumble the peg

.24 Pitching games
Quoits, horseshoe pitching, pitch and toss, tipcat

.25 Toss and catch games
Cup and ball, diabolo, bean bag

.26 Battledore and shuttlecock

.3 **Ball games Throwing games**

.31 Balls thrown directly by hand
Handball, field ball, Indian ball, cavalry ball, poison ball, lawn bowling, etc.

.32 Inflated ball thrown by hand
Basket ball, volley ball, pallone, etc.

.33 Inflated ball driven by foot
Football, soccer, Rugby, pushball, etc.

.34 Ball thrown with racquet
Tennis, la crosse, badminton, squash, etc.

.35 Ball driven by mallet or bat

.351 **Generalities**

Mallet games

.352 **Golf**

.353 **Polo**

.354 **Croquet, pall mall, etc.**

.355 **Field hockey**

Bat games

.357 **Baseball**

.358 **Cricket**

.37 Other throwing games

.38 Throwing sports
Javelin, spear, boomerang, discus, shot putting

.4 **Athletic exercizes Gymnastics Olympic games**
For physical education see 371.73; for hygiene see 613.7

.407 **Systems**

Light exercizes

.41 Calisthenics
Exercizes for strength and suppleness. Free exercizes, setting-up exercizes, dumb bells, barbells, Indian clubs, wands

.42 Marching Running Stilts
Cross country, distance, foot, marathon running; hurdle racing; sprinting; etc.

Hevy exercizes

.43 Jumping Vaulting Balancing
High jumping, broad jumping, springboard; pole vaulting, horse vaulting; balancing exercizes, mat work, pyramids; etc.

.44 Horizontal bars Parallel bars

.46 Trapeze Rings Ropes Ladders

.47 Acrobatism Contortion Tumbling

796.5 Touring Climbing Pedestrianism Camping
.51 Pedestrianism Walking
.52 Alpinism Mountain climbing
.521 Guides: rules and rates
For insurance of guides see 368.41 Accident insurance
.522 Dangers and accidents: precautions and rules
For accidents not due to climbing see 551.3 landslides, 551.31 avalanches, 551.57 freshets. For maladies see 616 Pathology, and 612 Physiology, 612.27511 Mountain sickness, 616.12 Hart disturbances, 616.13 Hemorrhage of arteries, 616.243 Hemorrhage of lungs, 616.841 Vertigo
.523 Calls and signals
.53 Caravaning Touring
.54 Camping
.545 Woodcraft
.6 Cycling
Man-power locomotiv apparatus
Solely as sport
.7 Automobiling
Motor-driven vehicles
Solely as a sport
.8 Athletic combats
See also 791.8 for combats with animals
.81 Wrestling
.82 Olympic, Greco-Roman wrestling
.83 Boxing
.86 Fencing
For rules of dueling see 394.8
.862 Quarterstaf fencing Singlestick
.863 Foil and sword
.865 Saber
.9 Ice and snow sports Ice carnivals
.91 Skating
.92 Snow shoeing
.93 Skiing Ski-löbing Skijoring
.94 Sleighing Sledging
.95 Coasting Tobogganing
.96 Ice games
Ice hocky, bandy, curling, ice baseball
.97 Ice sports
Ice boating, cycling, horse racing

797 Boating and other water sports Aerostation

.1 Boating
Solely as a sport; for commercial navigation see 386, 387 and 656; for theory see 527
.12 With poles, paddles, oars, sails
.122 Canoeing
Paddling, sculling
.123 Rowing Punting
.124 Sailing
Yawl, catboat etc.
.125 Motor boats
.14 Yachts Racing Water carnivals
Launches, houseboats
For interschool races see 371.75
.15 Excursion boats
.17 Minor methods of navigation
Velocipeds, podoscafs, water toboggans, etc.
.2 Swimming and diving
.21 Swimming without apparatus
.22 " with "
.25 Games
Water polo, canoe polo, water quintain
.5 Aerostation
As a sport. For construction of air craft see 629.13, for commercial side see 387.7

798 Horsemanship Racing

As a sport. For care of horses see 636.1
.2 Horsemanship
.22 Training saddle horses
.23 Riding
.24 Riding schools Riding exhibitions
.4 Horse racing Trotting
Courses, tracks
Race horses: breeding, training; may, if preferd, be clast under 636.12
.45 Obstacle races Steeplechases
.6 Carriage horses Spans
See also 636.14
.62 Training carriage horses
.64 Driving Coaching
.66 Carriageways, drives Exhibitions of driving
.8 Racing other animals
Whippet racing

799 Fishing, hunting, target shooting

Solely as a sport. For trapping and hunting as an industry see 639.1; for fishing as an industry see 639.2–.6

.1 Fishing

.11 Freshwater fishing

.12 Angling

.13 Net fishing Seining

.14 Other methods of fishing

.15 Shore fishing

.16 Sea fishing .166 By oceans Divided like 551.46

.17 For special kinds of fish

Subdivided like 597

.2 Hunting

.21 Shooting game

.22 Hunting in open country and in covers

.23 Hunting with retrievers, pointers

.24 Bird hunting

.242 Land birds

Field and cover hunting

.243 Bay shooting Shore shooting Fenbirds

.244 Water fowl

.248 Special birds

Subdivided like 598

.25 Hunting with hounds, falcons, etc. Jack hunting, drag hunting

For general works on both dangerous and nondangerous animals, also non-dangerous animals alone. For dangerous animals alone see 799.26. For special animals, dangerous or nondangerous, see 799.27

.26 Hunting dangerous animals

.261 Generalities

.262 Methods

Firearms, bolas, lasso, spear, boomerang, sling etc.

.27 Special animals

May be subdivided for 799.271-.278 like 599.1-.8, adding (if needed) man hunting as 799.2789, and classing creatures not included under 599 in 799.279 subdivided like 590, e. g. crocodile hunting 799.279814; or, if preferd, may be arranged alfabeticly by assigning Cutter book numbers from name of animal

.28 Hunting with camera Divided like 592–599

.29 By country

Divide like 930-999

.3 Shooting (otherwize than for game)

For shooting game see 799.21

.31 Target practis Trap shooting

With firearms: pistols, shotguns, rifles, earbines

.32 Archery: longbow, crossbow

.39 Other means of shooting

Catapult, airgun

Literature Belles-lettres

The classification of literature is by *language*, not country, except that North and South American ar separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assignd to individual authors include only their *literary* works of that section and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong. The literary forms of each literature may be divided by period like the poetry of that literature.

800 Literature: general works

801 Philosofy Theories Literary esthetics

802 Compends, outlines

803 Dictionaries, cyclopedias

804 Essays, lecturès, addresses

Clas here collections of essays, addresses, lectures, etc. of which literature in general is the *subject*. For collections of essays in general, taken from various literatures, see 808.84; for collections of essays regarding a special literature see 04 under number for that literature, i.e. 810.4 Collections of essays *regarding* American literature; 820.4 for those regarding English literature, etc. For collections of literary essays belonging to a special literature see division 4 under number for that literature: i.e. Collections of American essays (by either 1 or several writers) 814, of English essays 824, etc. Collected essays on a special subject ar clast under number for that subject, i.e. 504 collections of essays on science in general or including 4 or more divisions of science, uzing similarly e.g. for collections covering the subject in general or 4 or more divisions of the subject 530.4, 572.04, etc. For a collection covering les than 4 divisions clas under number for 1st or most important

805 Periodicals, magazines, reviews

806 Societies: transactions, reports, etc.

807 Study and teaching of literature

808 Rhetoric Literary composition Collections

Divided .1 Poetry; may be divided like 811.02–.07 .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Voeal culture .6 Letters, epistolografy .7 Satire, humor

These heds, 808.1–.7, treat literature from standpoint of Rhetoric, and include only works *about* poetry, etc. regardless of language. For Collections see 808.8 below

.8 Collections from several literatures

Including books of quotations from several literatures

.81–.87 may be uzed like 808.1–.7, e.g. a collection of poetry from several literatures 808.81; of drama, 808.82. Clas collections relating to a special subject under number for that subject; e.g. Collections of writings on architecture 720.8, on history 908

.89 Collections of dialect, racial and local literatures

.891–.897 may be used like 808.1–.7, e.g. 808.891 General collections of dialect poetry from various literatures

.898 Collections representing special racial groups: Jews, negroes, etc.

May be divided ethnically like 400, under each 1–7 may be used like 808.1–.7, e.g. 808.8989642 Collections of negro drama. N.B. Emfasis here is on race, not language

.899 Collections of local poliglot literatures

To be used for collected literatures of countries employing more than 1 language. Divided geografically like 930–999, under each 1–7 may be used like 808.1–.7. Under each geografic number, 9 may be used for further geografic subdivision like the history number for that country followd by numbers for literary forms like 808.1–.7 e.g. 808.8994 Collections of European literature, 808.89941 European poetry; 808.89949941 Swiss poetry. For more detaild statement of procedure see note under 818.94

.9 Literatures of artificial and universal languages

Divided to language like 408.9, under each 1–8 may be used for literary form like 811–818, e.g. 808.922 Esperanto drama

809 History of literature in general

Including general histories of books and knowledge; e.g. Hallam's *Literature of the middle ages*. Divided like 808.1–.7, e.g. 809.3 History of fiction

.8 History of literatures of special racial groups: Jews, negroes, etc.

Divided as indicated under 808.898

.9 History of literature in general by locality

This provides for literary histories of countries using more than 1 language. Divided as indicated under 808.899, e.g. 809.94994 History of Swiss literature, 809.949941 History of Swiss poetry; 809.95942 History of the drama in India, 809.959494 History of the literatures of Rajputana

810 American literature

Includes Canadian English, which may be kept separate by prefixing C; e. g. C811 Canadian poetry

.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on American literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of American literature

811 American poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of American poetry

.1	**Colonial 1607–1776**	
.11	Sandys, George	1577–1644
.12	Bradstreet, Anne	1612–72
.13	Wigglesworth, Michael	1631–1705
.14	Green, Joseph	1706–80
.15	Livingston, William	1723–90
.16	Ferguson, Elizabeth	1739–1801
.2	**Post-revolutionary 1776–1830**	
.21	Trumbull, John	1750–1831
.22	Dwight, Timothy	1752–1817
.23	Barlow, Joel	1755–1812
.24	Freneau, Philip	1752–1832
.25	Alsop, Richard	1761–1841
.26	Pierpont, John	1785–1866
.27	Dana, Richard Henry	1787–1879
.28	Sprague, Charles	1791–1875
.29	Other poets	
.3	**Middle 19th century 1830–61**	
.31	Halleck, Fitz-Greene	1790–1867
.32	Poe, Edgar Allan	1809–49
.33	**Bryant, William Cullen**	1794–1878
.34	**Longfellow, Henry Wadsworth**	1807–82
.35	Read, Thomas Buchanan	1822–72
.36	**Whittier, John Greenleaf**	1807–92
.37	**Lowell, James Russell**	1819–91
.38	Whitman, Walt	1819–92
.39		
.4	**Later 19th century 1861–1900**	
.41	Stoddard, Richard Henry	1825–1903
.42	Hayne, Paul Hamilton	1831–86
.43	Stedman, Edmund Clarence	1833–1908
.44	Winter, William	1836–1918
.45	Miller, Cincinnatus Hiner (Joaquin)	1841–1913
.46	Taylor, Bayard	1825–78
.47	Lanier, Sidney	1842-81
.48	Gilder, Richard Watson	1844-1909
.49	Other	
.5	**Early 20th century 1901–**	

812 American drama

.1	**Colonial 1607–1776**	
.11	Warren, Mercy	1728–1814
.12	Godfrey, Thomas	1736–63
.13		
.2	**Post-revolutionary 1776–1830**	
.21	Tyler, Royall	1757–1826
.22	Dunlap, William	1766–1839
.23	Hillhouse, James Abraham	1789–1841
.24	Ingersoll, Charles Jared	1782–1862
.25		
.3	**Middle 19th century 1830–61**	
.31	Ritchie, Anna Cora Mowatt	1818–70
.32	Mathews, Cornelius	1817–89
.33	Boker, George Henry	1823–90
.34		
.4	**Later 19th century 1861–1900**	
.41		
.5	**Early 20th century 1901–**	

813 American fiction

.1	**Colonial 1607–1776**	
.2	**Post-revolutionary 1776–1830**	
.21	Brackenridge, Hugh Henry	1748–1816
.22	Rowson, Susanna	1762–1824
.23	Brown, Charles Brockden	1771–1810
.24	**Cooper, James Fenimore**	1789–1851
.25	Ware, William	1797–1852
.26	Neal, John	1793–1876
.27		
.28		
.29		
.3	**Middle 19th century 1830–61**	
.31	Thompson, Daniel Pierce	1795–1868
.32	Kennedy, John Pendleton	1795–1870
.33	**Hawthorne, Nathaniel**	1804–64
.34	Judd, Sylvester	1813–53
.35	Simms, William Gilmore	1806–70
.36	Melville, Herman	1819–91
.37	Stowe, Harriet Beecher	1812–96
.38		
.39		
.4	**Later 19th century 1861–1900**	
.41	Alcott, Louisa May	1832–88
.42	Eggleston, Edward	1837–1902
.43	Howells, William Dean	1837–1920
.44	Aldrich, Thomas Bailey	1836–1907
.45	Harte, Francis Bret	1839–1902
.46	James, Henry	1843–1916
.47	Hawthorne, Julian	1846–1934
.48	Burnett, Frances Hodgson	1849–1924
.49	Minor novelists	
.5	**Early 20th century 1901–**	

814 American essays

.1	**Colonial 1607–1776**		
.2	**Post-revolutionary 1776–1830**		
.21	Rush, Benjamin	1745–1813	
.22	Webster, Noah	1758–1843	
.23	Channing, William Ellery	1780–1842	
.3	**Middle 19th century 1830–61**		
.31	Ossoli, Margaret Fuller	1810–50	
.32	Giles, Henry	1809–82	
.33	Tuckerman, Henry Theodore	1813–71	
.34	**Holland, Josiah Gilbert**	1819–81	
.35	Whipple, Edwin Percy	1819–86	
.36	**Emerson, Ralph Waldo**	1803–82	See also 191.3
.37	Curtis, George William	1824–92	
.4	**Later 19th century 1861–1900**		
.41	Burroughs, John	1837–1921	
.42	Higginson, Thomas Wentworth	1823–1911	
.43	Mabie, Hamilton Wright	1846–1916	
.44	Matthews, Brander	1852–1929	
.45	Repplier, Agnes	1858–	
.5	**Early 20th century 1901–**		

815 American oratory

.1	**Colonial 1607–1776**	
.11		
.12		
.2	**Post-revolutionary 1776–1830**	
.21	Hamilton, Alexander	1757–1804
.22	Ames, Fisher	1758–1808
.23	Wirt, William	1772–1834
.24	Randolph, John	1773–1833
.25	Clay, Henry	1777–1852
.26	Calhoun, John Caldwell	1782–1850
.27	Webster, Daniel	1782–1852
.28		
.29		
.3	**Middle 19th century 1830–61**	
.31	Everett, Edward	1794–1865
.32	Choate, Rufus	1799–1859
.33	Sumner, Charles	1811–74
.34	Phillips, Wendell	1811–84
.35	Chapin, Edwin Hubbell	1814–80
.36	Beecher, Henry Ward	1813–87
.4	**Later 19th century 1861–1900**	
.41		
.42		
.43		
.5	**Early 20th century 1901–**	

816 American letters

Subdivided by periods, like 811

817 American satire and humor

.1	**Colonial 1607-1776**	
.11	Ward, Nathaniel	1570–1653
.12	Alsop, George	1638– ?
.13	Byles, Mather	1706–88
.14	Hopkinson, Francis	1737–91
.15	Peters, Samuel Andrew	1735–1826
.2	**Post-revolutionary 1776–1830**	
.21	Story, Isaac	1774–1803
.22	Fessenden, Thomas Green	1771–1837
.23	Paulding, James Kirke	1779–1860
.24	**Irving, Washington**	1783–1859
.25	Verplanck, Gulian Crommelin	1786–1870
.26		
.27		
.3	**Middle 19th century 1830–61**	
31	Neal, Joseph Clay	1807–47
32	**Holmes, Oliver Wendell**	1809–94
.33	Shelton, Frederick William	1814–81
.34	Shillaber, B P (Mrs Partington)	1814–90
.35	Saxe, John Godfrey	1816–87
.36	Cozzens, Frederick Swartout	1818–69
.37	Browne, C: F (Artemus Ward)	1834–67
.38	Haliburton, Thomas Chandler	1796–1865
.39	Other satirists and humorists	
.4	**Later 19th century 1861–1900**	
.41	Warner, Charles Dudley	1829–1900
.42	Locke, David Ross (P V Nasby)	1833–88
.43	Burdette, Robert J	1844–1914
.44	Clemens, S: L (Mark Twain)	1835–1910
.45	Carleton, William	1845–1912
.46	Shaw, Henry W (Josh Billings)	1818–85
.47	Nye, Edgar Wilson (Bill Nye)	1850–96
.48	Bangs, John Kendrick	1862–1922
.49	Other satirists and humorists	
.5	**Early 20th century 1901–**	

818 American miscellany

.3 Middle 19th century 1830–61

.31 Thoreau, Henry David 1817–62

.32 Mitchell, Donald Grant (Ik Marvel) 1822–1908

.4 Later 19th century 1861–1900

.5 Early 20th century 1901–

.9 American (U. S.) dialect, racial and local literature

For Canadian English literature see 819

.91 General questions

.911–.918 may be used for literary forms like 811–818, e.g. 818.911 American dialect poetry

.92 American literature according to nativ language combination or racial elcment represented

Swedish-American, Italian-American, etc. Divided like 820–899, e.g. 818.92397 Swedish-American dialect literature, 818.923977 Swedish-American humor; 818.92924 Jewish American literature; 818.92964 Negro American literature

.94–.99 American regional and local literature

Divided geografically like 974–979. Each step in the geografic subdivision may be further subdivided by 1–8 for literary forms like 811–818 with 9 used for further geografic subdivision like that of the area under which it falls; each of these in turn subdivided by literary forms 1–8, with 9 used for the next step in geografic subdivision followd by further subdivision by literary forms, and so on to as minute degree as may be desired. See illustration below. Alfabetic arrangement may be substituted at any point if preferd

.94 Literature of New England and North Atlantic states

.941–.948 literary forms (poetry, drama, etc.) like 811–818, e.g. 818.941 New England poetry

.949 divided by states like 974

1 Maine literature

11–18 literary forms, e.g. 818.94911 Maine poetry

19 Literature of Maine counties

Divided like 974.1

191 Literature of Aroostook co

1–8 literary forms, e.g. 818.9491911 Poetry of Aroostook co

9 Local Aroostook

192 Literature of Somerset co

1–8 literary forms, e.g. 818.9491921 Poetry of Somerset co

89 Local Somerset

9 Literature of Piscataquis co

91–98 literary forms, e.g. 818.94919291 Poetry of Piscataquis co.

99 Local Piscataquis

193 Literature of Penobscot co

1–8 literary forms, e.g. 818.9491931 Poetry of Penobscot co.

9 Local Penobscot

Etc.

819 Canadian English literature

For French Canadian literature use 848.99791

.1–.8 Literary forms like 811–818, e.g. 819.1 Canadian poetry

.89 Canadian provincial and local literature

Divided to provinces like 971, under each 1–8 Literary forms, 9 further local, divided like history number for province (as explaind in note under 818.94), e.g. 819.8911 British Columbia poetry

.9 Other American English

For method of subdivision under each section see note and illustrations under 818.94

.92 Mexican English

.929 Mexican local divided like 972.1–.7

.93 Central American English

.939 Local divided like 972.8

.94 West Indies English

.949 Local divided like 972.9

.98 South American English

.989 Local divided like 980

820 English literature

Canadian literature may be clast as British, if preferd, but separated by prefixing C to 820. See note to 810

820.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on English literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

821 English poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of English poetry

.1	**Early English 1066–1400**	
.11	Layamon	1150–1207
.12	Ormin	1187–1237
.13	Robert of Gloucester	1245–1307
.14	Minot, Lawrence	1313–52
.15	Langland, William	1332–99
.16	Barbour, John	1316–95
.17	**Chaucer, Geoffrey**	1340–1400
.18	Gower, John	1325–1408
.19	Minor writers	
.2	**Pre-Elizabethan 1400–1558**	
.21	Lydgate, John	1369–1461
.22	Skelton, John	1460–1529
.23	Dunbar, William	1460–1520
.24	Douglas, Gavin	1474–1522
.25	Hawes, Stephen	1483–1509
.26	Lyndsay, Sir David	1490–1555
.27	Wyatt, Sir Thomas	1503–42
.28	Surrey, Henry Howard, earl of	1517–47
.29	Minor writers	
.3	**Elizabethan 1558–1625**	
.31	**Spenser, Edmund**	1553–99
.32	Sidney, Sir Philip	1554–86
.33	Daniel, Samuel	1562–1619
.34	Drayton, Michael	1563–1631
.35	Davies, John	1569–1626
.36	Drummond, William	1585–1649
.37	Fletcher, Giles and Phineas	1585–1650
.38	Herbert, George	1593–1632
.39	Minor writers	
.4	**Post-Elizabethan 1625–1702**	
.41	Suckling, Sir John	1609–42
.42	Crashaw, Richard	1616–50
.43	Herrick, Robert	1591–1674
.44	Waller, Edmund	1605–87
.45	Lovelace, Richard	1618–58
.46	Cowley, Abraham	1618–67
.47	**Milton, John**	1608–74
.48	**Dryden, John**	1631–1700
.49	Minor writers	

821.5	**Queen Anne** Early 18th century	1702–45	
.51	Prior, Matthew	1664–1721	
.52	Parnell, Thomas	1679–1717	
.53	**Pope, Alexander**	1688–1744	See also 827.55
.54	Ramsay, Allan	1686–1758	
.55	Young Edward	1684–1765	
.56	Thomson, James	1700–48	
.57	Collins, William	1721–59	
.58	Shenstone, William	1714–63	
.59	Minor writers		
.6	**Later 18th century** Pre-revolutionary	1745–1800	
.61	Gray, Thomas	1716–71	
.62	Akenside, Mark	1721–70	
.63	Chatterton, Thomas	1752–70	
.64	Goldsmith, Oliver	1728–74	
	See also 823.64 and 824.66		
.65	Cowper, William	1731–1800	
.66	Macpherson, James	1738–96	
.67	**Burns, Robert**	1759–96	
.68	White, Henry Kirke	1785–1806	
.69	Minor writers		
.7	**Early 19th century** Post-revolutionary	1800–37	
.71	Wordsworth, William	1770–1850	
.72	Coleridge, Samuel Taylor	1772–1834	
.73	Southey, Robert	1774–1843	
.74	Scott, Sir Walter	1771–1832	See also 823 73
.75	Moore, Thomas	1779–1852	
.76	Byron, George Gordon Noel, 6th lord	1788–1824	
.77	Shelley, Percy Bysshe	1792–1822	
.78	Keats, John	1795–1821	
.79	Minor writers		
.8	**Victorian period**	1837–1900	
.81	Tennyson, Alfred, 1st baron	1809–92	
.82	Browning, Elizabeth Barrett	1809–61	
.83	Browning, Robert	1812–89	
.84	Rossetti, Dante Gabriel	1828–82	
.85	Morris, William	1834–96	
.86	Swinburne, Algernon Charles	1837–1909	
.87	Bridges, Robert Seymour	1844–	
.88	Watson, Sir William	1858–	
.89	Minor writers		
.91	**Early 20th century 1901–**		

822 English drama

.1	**Early English 1066–1400**	
.11	Chester plays	
.12	Coventry plays	
.13	Townley plays	

822.2	**Pre-Elizabethan**	**1400–1558**	
.21	Heywood, John	1506–65	
.22	Udall, Nicholas	1505–64	
.23	Bale, John	1495–1563	
.3	**Elizabethan**	**1558–1625**	
.31	Greene, Robert	1561–92	
.32	Marlowe, Christopher	1564–93	
.33	**Shakspere, William**	1564–1616	
.34	**Jonson, Ben**	1574–1637	
.35	**Beaumont, Francis and Fletcher, John**	1584–1616 1579–1625	
.36	Webster, John	1582–1652	
.37	Massinger, Philip	1584–1640	
.38	Ford, John	1586–1639	
.39	Minor writers		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Davenant, Sir William	1605–68	
.42	Etherege, Sir George	1637–88	
.43	Crowne, John	1644–99	
.44	Wycherly, William	1640–1715	
.45	Otway, Thomas	1651–85	
.46	**Congreve, William**	1670–1729	
.47	Vanbrugh, Sir John	1666–1726	
.48	Farquhar, George	1678–1707	
.49	Minor writers		
.5	**Queen Anne** Early 18th century	**1702–45**	
.51	Dennis, John	1657–1734	
.52	Southerne, Thomas	1660–1746	
.53	Centlivre, Mrs Susannah (Freeman)	1668–1723	
.54	Cibber, Colley	1671–1757	
.55	Rowe, Nicholas	1674–1718	
.56	Gay, John	1688–1732	
.57	Lillo, George	1693–1739	
.58			
.59	Minor writers		
.6	**Later 18th century**	**1745–1800**	
.61	Garrick, David	1716–79	
.62	Foote, Samuel	1721–77	
.63	Colman, George, the elder	1732–94	
.64	Home, John	1724–1808	
.65	Cumberland, Richard	1732–1811	
.66	**Sheridan, Richard Brinsley**	1751–1816	See also 825.66
.67	Inchbald, Mrs Elizabeth (Simpson)	1753–1821	
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–1837**	
.71	Baillie, Joanna	1762–1851	
.72	Knowles, James Sheridan	1784–1862	
.8	**Victorian period**	**1837–1900**	
.91	**Early 20th century**	**1901–**	

823 English fiction

.1	**Early English**	**1066-1400**	
.2	**Pre-Elizabethan**	**1400-1558**	
	More's *Utopia*	Prefer 321.07 Ideal states	
.3	**Elizabethan**	**1558–1625**	
	Lyly's *Euphues*		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Harrington, James	1611–77	
.42	**Bunyan, John**	1628–88	
.43	Mackenzie, George	1636–91	
.44	Behn, Aphra	1640–89	
.5	**Queen Anne**	**1702–45**	
.51	Defoe, Daniel	1661–1731	
.52	Fielding, Henry	1707–54	
.6	**Later 18th century**	**1745–1800**	
.61	Richardson, Samuel	1689–1761	
.62	Sterne, Laurence	1713–68	
.63	Smollett, Tobias George	1721–71	
.64	**Goldsmith, Oliver** See also 821.64 and 824.66	1728–74	
.65	Mackenzie, Henry	1745–1831	
.66	Arblay, Frances (Burney), madame d'	1752–1840	
.67			
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–37**	
.71	Lewis, Matthew Gregory	1775–1818	
.72	Edgeworth, Maria	1767–1849	
.73	**Scott, Sir Walter**	1771–1832	See also 821.74
.74	Austen, Jane	1775–1817	
.75	Porter, Jane	1776–1850	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839	
.78	Marryat, Frederick	1792–1848	
.79	Minor writers		
.8	**Victorian period**	**1837–1900**	
.81	Brontë, Charlotte	1816–55	
.82	**Thackeray, William Makepeace**	1811–63	
.83	**Dickens, Charles**	1812–70	
.84	Lytton, Edward George Bulwer, 1st baron	1803–73	
.85	Kingsley, Charles	1819–75	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–81	
.87	Trollope, Anthony	1815–82	
.88	Cross, Mary Ann (Evans) Lewes [George Eliot]	1819–80	
.89	Minor writers		
.91	**Early 20th century**	**1901–**	

824 English essays

.3	**Elizabethan 1558–1625**		
	Francis Bacon 1561–1626		
.4	**Post-Elizabethan 1625–1702**		
	John Locke 1632–1704		
.5	**Queen Anne 1702–45**		
.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713	
.52	**Addison, Joseph**	1672–1719	
.53	Steele, Sir Richard	1671–1729	
.54	Budgell. Eustace	1686–1737	
.55			
.56			
.57			
.58			
.59			
.6	**Later 18th century 1745–1800**		
.61	Moore, Edward	1712–57	
.62	Kames, Henry Home, lord	1696–1782	
.63	**Johnson, Samuel**	1709–84	
.64	Hume, David	1711–76	See also 192.4
.65	Hawkesworth, John	1715–73	
.66	Goldsmith, Oliver	1728–74	
	See also 821.64 and 823.64		
.67	Gibbon, Edward	1737–94	
.68			
.69	Minor writers		
.7	**Early 19th century 1800–37**		
.71	Mackintosh, Sir James	1765–1832	
.72	Smith, Sydney	1771–1845	
.73	Jeffrey, Francis, lord	1773–1850	
.74	Brougham, Henry, 1st baron	1778–1868	
.75	**Lamb, Charles**	1775–1834	
.76	Hazlitt, William	1778–1830	
.77	Hunt, Leigh	1784–1859	
.78			
.79	Minor writers		
.8	**Victorian period 1837–1900**		
.81	De Quincey, Thomas	1785–1859	
.82	Carlyle, Thomas	1795–1881	
.83	Macaulay, Thomas Babington, 1st baron	1800–59	
.84	Helps, Sir Arthur	1817–75	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–1900	
.87	Pater, Walter Horatio	1839–94	
.88	Gosse, Sir Edmund William	1849–	
.89	Minor writers		
.91	**Early 20th century 1901–**		

825 English oratory

For 'speakers' see 808.8

Subdivided by periods like 821

.6	**Later 18th century 1745–1800**		
.61	Chatham, William Pitt, 1st earl of	1708–78	
.62	**Burke, Edmund**	1729–97	
.63	Fox, Charles James	1749–1806	
.64	**Sheridan, Richard Brinsley**	1751–1816	See also 822.66
.65	Grattan, Henry	1750–1820	
.66	Pitt, William	1759–1806	

826 English letters

Subdivided by periods like 821

.2	**Pre-Elizabethan 1400–1558**		
	Paston letters		
.5	**Queen Anne 1702–45**		
.51	Montagu, Lady Mary (Pierrepont) Wortley	1690–1762	
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694–1773	
.53			
.6	**Later 18th century 1745–1800**		
.61	Orford, Horace Walpole, 4th earl of	1717–97	
.62	Montagu, Mrs Elizabeth (Robinson)	1720–1800	

827 English satire and humor

.2	**Pre-Elizabethan 1400–1558**	
.21	Barclay, Alexander	1475–1552
.3	**Elizabethan 1558-1625**	
.31	Gascoigne, George	1537–77
.32	Harington, Sir John	1561–1612
.33	Hall, Joseph	1574–1656
.34	Marston, John	1575–1634
.35	Donne, John	1573–1631
.36		
.37		
.38		
.39		
.4	**Post-Elizabethan 1625-1702**	
.41	Wither, George	1588–1667
.42	**Butler, Samuel**	1612–80
.43	Marvell, Andrew	1620–78
.44	D'Urfey, Thomas	1625–1723
.45	Oldham, John	1653–83
.46	Brown, Thomas	1663–1704
.47	King, William	1663–1712
.48	Garth, Sir Samuel	1665–1719
.49	Minor writers	

827.5 **Queen Anne 1702-45**
.51 Ward, Edward 1667–1731
.52 **Swift, Jonathan** 1667–1745
.53 Mandeville, Bernard de 1670–1733
.54 Arbuthnot, John 1675–1735
.55 **Pope, Alexander** 1688–1744 See also 821.53
.6 **Later 18th century 1745–1800**
.61 Churchill, Charles 1733–65
.62 Amory, Thomas 1691–1788
.63 Whitehead, Paul 1710–74
.64 Junius *pseud.* 1679–1772
.65 Wolcott, John [Peter Pindar] 1738–1819
.7 **Early 19th century 1800–37**
.71 Gifford, William 1757–1826
.72 Hood, Thomas 1798–1845
.8 **Victorian 1837–1900**
.81 Jerrold, Douglas 1803–57
.91 **Early 20th century 1901–**

828 English miscellany

Anecdotes, ana, epigrams, quotations, etc. if illustrativ of any special subject (e. g. biografy, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

.99 **English dialect and local literature**
.991 General questions
1–8 Literary forms like 811–818, e.g. 828.9912 English dialect drama
.992 English county and local literature
Divided like 942 as explaind in note and illustrations under 818.94; e.g. 828.9929 Welsh English literature, 828.99292 Welsh English drama; 828.99299 Welsh English local literature divided like 942.9, e.g. 828.992992 Literature of Carnarvon, 828.9929925 Carnarvon oratory; 828.9929929 Merioneth literature, 828.99299295 Merioneth oratory
.993 Irish English literature
For literature in Irish language use 891.62
1–8 Literary forms like 811–818, e.g. 828.9931 Irish English poetry
9 Irish local
96–99 divided as explaind under 818.94 like 941.6–.9, e.g. 828.99396 Ulster English literature, 828.993961 Ulster English poetry, 828.9939691 Antrim English literature
.994 Scotch English literature
For literature in Scotch language use 891.63
1–8 Literary forms, e.g. 828.9943 Scotch English fiction
9 Scotch local
91–94 divided as explaind under 818.94 like 941.1–.4, e.g. 828.99491 English literature of Northern Scotland, 828.9949191 English literature of Shetland
99 Other European English
993–999 divided like 943–949 as explaind under 818.94, e.g. 828.994993 English literature written by Germans, 828.9949931 German English poetry; 828.99499393 Bavarian English literature
.995–.996 and .999 Other English literature
Divided as explaind under 818.94 like 950–960 and 999, e.g. 828.9994 Australian English literature. For English literature of North and South America see 810–819

829 Anglo-Saxon literature

.1 **Poetry**
.2 **Cædmon**
.3 **Beowulf**
.4 **Cynewulf**
.5 **Homilies and religious**
.6 **Ælfric**
.7 **Alfred the Great**
.8 **Miscellaneous**
.9 **Historic and biografic**

830 German literature

830.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of German poetry

.1 **Before the Crusades –1150**
.11 *Hildebrandslied*
.12 Otfried
.13 *Ludwigslied*
.14 *Muspilli*
.2 **Middle high 1150–1300**
.21 *Nibelungenlied*
.22 *Gudrun*, and minor folk epics
.23 Heinrich von Veldeke –1200 See also 839.311
.24 Wolfram von Eschenbach
.25 Gottfried von Strassburg
.26 Hartmann von Aue 1170–1220
.27 Walther von der Vogelweide 1170–1230
.28 Ulrich von Lichtenstein 1199–1276
.29 Minor writers
.3 **Period of decline 1300–1517**
.31 Horneck, Ottokar von
.32 Hadamar von Laber
.33 Hermann von Sachsenheim –1458
.34 Büheler, Hans *Die sieben weisen meister* 1414–
.35 Kaspar von der Röhn *Das heldenbuch*
.36 *Theuerdank*
.37 *Die Haimonskinder*
.38 Mastersingers
.39 Minor writers
.4 **Reformation; new high 1517–1625**
.41 Agricola, Martin 1486–1556
.42 Waldis, Burkard 1490–1558
.43 Alberus, Erasmus 1500–53
.44 **Sachs, Hans** 1494–1576
.45 Ringwaldt, Bartholomäus 1530–99
.46 Rollenhagen, Georg 1542–1609
.47 Andreä, Johann Valentin 1586–1654
.5 **Period of imitation 1625–1750**
The Silesian schools
.51 Opitz von Boberfeld, Martin 1597–1639
.52 Flemming, Paul 1609–40
.53 Logau, Friedrich von 1604–55
.54 Gerhardt, Paul 1607–76
.55 Hofmannswaldau, Christian Hofmann von 1618–79
.56 Zesen, Philipp von 1619–89
.57 Brockes, Barthold Heinrich 1680–1747
.58 Bodmer, Johann Jakob 1698–1783
.59 Minor writers

831.6 Classic period 1750–1830

For Göthe and Schiller, see 832.6

.61	Gellert, Christian Fürchtegott	1715–69
.62	**Klopstock, Friedrich Gottlieb**	1724–1803
.63	Bürger, Gottfried August	1748–94
.64	**Herder, Johann Gottfried von**	1744–1803
.65	Voss, Johann Heinrich	1751–1826
.66	Körner, Karl Theodor	1791–1813
.67	Hölderlin, Johann Christian Friedrich	1770–1843
.68	Platen Hallermünde, August, graf von	1796–1835
.69	Minor writers	

.7 Postclassic period 1830–56

.71	Arndt, Ernst Moritz	1769–1860
.72	Eichendorff, Joseph, freiherr von	1788–1857
.73	Uhland, Johann Ludwig	1787–1862
.74	Rückert, Friedrich	1789–1866
.75	**Heine, Heinrich**	1799–1856
.76	Niembsch von Strehlenau, Nikolaus	1802–50
.77	Auersperg, Anton Alexander, graf von [Anastasius Grün]	1806–81
.78	Freiligrath, Ferdinand	1810–76
.79	Minor writers	

.8 Later 19th century 1856–1900

.81	Schefer, Leopold	1784–1862
.82	Kinkel, Johann Gottfried	1815–82
.83	Geibel, Emanuel	1815–84
.84	Bodenstedt, Friedrich Martin	1819–92
.85		
.86		
.87		
.88		
.89	Minor writers	

.91 Early 20th century 1901–

832 German drama

.5 Period of imitation 1625–1750

.51	Gryphius, Andreas	1616–64
.52	Lohenstein, Daniel Casper	1635–83
.53	Weise, Christian	1642–1708
.54	Gottsched, Johann Christoph	1700–76
.55	Gottsched, Luise Adelgunde Victoric (Culmus)	1713–62

.6 Classic period 1750–1830

.61	**Lessing, Gotthold Ephraim**	1729–81
.62	**Göthe, Johann Wolfgang von**	1749–1832
.63	**Schiller, Johann Christoph Friedrich**	1759–1805
.64	Klinger, Friedrich Maximilian	1753–1831
.65	Iffland, August Wilhelm	1759–1814
.66	Kotzebue, August Friedrich Ferdinand von	1761–1819
.67	Werner, Friedrich Ludwig Zacharias	1768–1823
.68	Kleist, Heinrich Bernt Wilhelm von	1777–1811
.69	Minor writers	

832.7 Postclassic period 1830–56

.71	Grabbe, Christian Dietrich	1801–36
.72	Griepenkerl, Wolfgang Robert	1810–36
.73	Grillparzer, Franz	1791–1872
.74	Birch-Pfeiffer, Charlotte	1800–68
.75	Münch-Bellinghausen, Eligius Franz Joseph [Friedrich Halm]	1806–66
.76	Laube, Heinrich	1806–84
.77	Hebbel, Friedrich	1815–63
.78	Gutzkow, Karl Ferdinand	1811–78
.79	Minor writers	

.8 Later 19th century 1856–1900

.81	Benedix, Julius Roderich	1811–73
.82	Mosenthal, Salomon Hermann	1821–77
.83	Brachvogel, Albert Emil	1824–78
.84	Gottschall, Karl Rudolph	1823–1909
.85	Lindau, Paul	1839–
.89	Minor writers	

.91 Early 20th century 1901–

833 German fiction

.5 Period of imitation 1625–1750

.51	Buchholtz, Andrew Heinrich	1607–71
.52	Grimmelshausen, Hans Jakob Christoffel von	1625–76
.53	Anselm, Heinrich	1653–97
.54	*Robinsonaden*	
.55	*Der Neue Amadis*	

.6 Classic period 1750–1830

.61	Wieland, Christoph Martin	1733–1813
.62	Richter, Jean Paul Friedrich	1763–1825
.63	Hardenberg, Friedrich von [Novalis]	1772–1801
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822
.65	La Motte Fouqué, Friedrich H; C;	1777–1843
.66	Arnim, Ludwig Achim von	1781–1831
.67	Hauff, Wilhelm	1802–27
.68	Chamisso, Adelbert von	1781–1838
.69	Minor writers	

.7 Postclassic period 1830–56

.71	Zschokke, Johann Heinrich Daniel	1771–1848
.72	Brentano, Clemens	1778–1842
.73	Tieck, Ludwig	1773–1853
.74	Postl, Karl [Charles Sealsfield]	1793–1864
.75	Häring, Wilhelm [Wilibald Alexis]	1798–1871
.76	Hahn-Hahn, Ida, gräfin von	1805–80
.77	Gerstäcker, Friedrich	1816–72
.78	Hackländer, Friedrich Wilhelm	1816–77
.79	Minor writers	

833.8 **Later 19th century 1856–1900**
.81 Auerbach, Berthold 1815–82
.82 Freytag, Gustav 1816–95
.83 Scheffel, Joseph Viktor von 1826–96
.84 Spielhagen, Friedrich 1829–1911
.85 Heyse, Paul Johann Ludwig 1830–1914
.86 Ebers, Georg 1837–98
.89 Minor writers
.91 **Early 20th century 1901–**

834 German essays
Subdivided by periods like 831

835 German oratory
" "

836 German letters
" "

837 German satire and humor

.2 **Middle high: minnesingers 1150–1300**
.21 [Stricker, Der] *Der Pfaffe Amis* and *Beispiele*
.22 *Salomon und Morolf*
.3 **Period of decline 1300–1517**
.31 *Reineke Vos* See also 839.3171
.32 Brant, Sebastian 1458–1521
.4 **Reformation: new high 1517–1625**
.41 Murner, Thomas [Tyll Eulenspiegel] 1475–1537
.42 Fischart, Johann 1550–89
.5 **Period of imitation 1625–1750**
.51 Moscherosch, Johann Michael 1601–69
.52 Rachel, Joachim 1618–69
.53 Wernicke, Christian 1660–1720
.54 Liscow, Christian Ludwig 1701–60
.6 **Classic period 1750–1830**
.61 Rabener, Gottlieb Wilhelm 1714–71
.62 Blumauer, Aloys 1755–98

838 German miscellany
See 828, note

839 Other Teutonic literatures
Subdivided by form, poetry, drama, etc. like 830

.1 **Western Germanic literatures in general**
.2 **Frisian Old Saxon**
.3 **Netherlandish**
.31 **Dutch literature**
.311 Dutch poetry
1 **Middle ages** 1200–1450
(2 Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250–94 4 Melis Stoke 1310 5 Dirc Potter 1428
2 **Chambers of rhetoric** 1450–1600
2 Anna Bijns 1500 4 Cornelis Everaert 1550 6 Dirk Volkerszoon Coornhert 1522–90 9 Minor writers
3 **Period of the Republic** 1600–1700
1 **Jacob Cats** 1577–1660 2 **Joost van den Vondel** 1587–1679 3 Marie Tesselschade Visscher 1594–1649 4 **Constantijn Huygens** 1596–1687 5 Reyer Anslo 1626–69 6 Geraert Brandt 1626–85 7 Jan Antoniszoon van der Goes (Antonides) 1647–84 9 Minor writers
4 **Poetic societies** 1700–1800
1 Lucas Rotgans 1654–1710 2 Hubert Corneliszoon Poot 1689–1733 3 Arnold Hoogvliet 1687–1763 4 Sybrand Feitama 1694–1758 5 Willem van Haren 1710–68 6 Jacob Bellamy 1757–86 7 Hieronymus van Alphen 1746–1803 9 Minor writers
5 **Modern period** 1800–
1 Willem Bilderdijk 1756–1831 2 Jan Frederik Helmers 1767–1813 3 Cornelis Loots 1765–1834 4 Hendrik Tollens 1780–1856 5 Isaac da Costa 1798–1860 9 Minor writers

.312 Dutch drama
3 **Period of the Republic** 1600–1700
1 **Gerbrand Adriaenszoon Bredero** 1585–1618 2 **Corneliszoon Hooft** 1581–1647 3 Samuel Costa 1580–1650 4 Jan Vos 1620–67 6 Joachim Oudaan 1628–92 9 Other
4 **Poetic societies** 1700–1800
1 Pieter Langendijk 1683–1756 2 Andries Pels 3 Balthasar Huydecoper 1695–1778 4 Onno Zwier van Haren 1713–79 5 Jan Nomsz 1738–1803 9 Minor writers
5 **Modern period** 1800–
1 Samuel Iperuszoon Wiselius 1769–1845 2 Pieteri Theodoor Helvetius van den Bergh 1799–1873 3 Hendrik Jan Schimmel 1825–1906

.313 Dutch fiction
4 **Poetic societies** 1700–1800
1 Elisabeth Bekker Wolff 1738–1804 2 Agatha Deken 1741–1804 3 Rhijnvis Feith 1753–1824
5 **Modern period** 1800–
1 Adriaan Loosjes 1761–1818 2 Jacob Vosmaer 1783–1834 3 Jan Frederik Oltmans 1800–54 4 Jacob van Lennep 1802–68 6 Anna Louisa Geertruida Bosboom-Toussaint 1812–86

.314 Dutch essays
4 **Poetic societies** 1700–1800
Justus van Effen 1684–1735
5 **Modern period** 1800–
1 Johannes Henricus van der Palm 1763–1840 2 Reinier Cornelis Bakhuizen van den Brink 1810–65 3 Everhardus Johannes Potgieter 1808–75 4 Nicolaas Beets 1814–1903 5 Coenraad Busken Huet 1826–86

.317 Dutch satire and humor
1 **Middle ages** 1200–1450
Reinaert (van den vos Reinaerde) see 837.31
4 **Poetic societies** 1700–1800
Arend Simonszoon Fokke 1755–1812

839.318 Dutch miscellany
The subdivisions of 8 show the leading writers in other branches of knowledge
In classification, books ar placed with their subjects, theology, history, etc.
1 **Middle ages** 1200–1450
Jan van Boendale (Jan de Clerc) *Chronicles*, 1280–1365
4 **Poetic societies** 1700–1800
Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–73

.32 Flemish literature
Divide by form and period like 839.31 Dutch literature

.36 Afrikaans
Divide by form like 839.31 Dutch literature

.4 Low German Platt Deutsch

.5 Scandinavian

.6 Old Norse Icelandic Faroese

.7 Swedish literature

.71 Swedish poetry
.711 **Middle ages** 1200–1520
1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Ericus Olai 1486 4 Ballads (Folkvisor)
.712 **Reformation** 1520–1640
1 Olaus Petri 1496–1552 2 Laurentius Petri 1499–1573
.713 **Age of Stjernhjelm** 1640–1740
1 Georg Stjernhjelm 1598–1672 2 Lars Johansson (Lucidor) 1640–74 3 Haquin Spegel 1645–1714 4 Israel Holmström 1660–1708 5 Gunno Eurelius Dahlstjerna 1661–1709 6 Johan Runius 1679–1713 7 Jacob Frese 1691–1729 8 Samuel von Triewald 1688–1743 9 Minor writers
.714 **Age of Dalin** 1740–80
1 Olof Carelius 1758 2 Olof von Dalin 1708–63 3 Hedvig Charlotta Nordenflycht 1718–63 4 Anders Odel 1718–73 5 Gustaf Filip Creutz 1729–85 6 Gustaf Fredrik Gyllenborg 1731–1808 7 Olof Bergklint 1733–1805 9 Minor writers
.715 **Age of Gustavus** 1780–1800
1 Karl Mikael Bellman 1740–1795 2 Johan Henrik Kellgren 1751–95 3 Bengt Lidner 1757–93 4 Johan Gabriel Oxenstjerna 1750–1818 5 Tomas Thorild 1759–1808 6 Anna Maria Lenngren 1754–1817 7 Karl Gustaf af Leopold 1756–1829 8 Frans Mikael Franzén 1772–1847 9 Minor writers
.716 **Modern period** 1800–
1 Per Henrik Ling 1776–1839 2 Johan Olof Wallin 1779–1839 3 Esaias Tegnér 1782–1846 4 Erik Johan Stagnelius 1793–1823 5 Per Daniel Amadeus Atterbom 1790–1855 6 Karl Jonas Ludwig Almqvist 1793–1866 7 Johan Ludwig Runeberg 1804–77 8 Karl Vilhelm Böttiger 1807–79 9 Minor writers

.72 Swedish drama
.722 **Reformation** 1520–1640
1 Johan Messenius 1579–1637 2 Magnus Olai Asteropherus –1647 3 Andreas Johannis Prytz 1590–1655
.723 **Age of Stjernhjelm** 1640–1740
Isak Börk –1701
.725 **Age of Gustavus** 1780–1800
1 Karl Israel Hallman 1732–1800 2 Gustaf 3 (king) 1746–92 3 Olof Kexél 1748–96 4 Karl Envallsson 1756–1806
.726 **Modern period** 1800–.
1 Johan Börjesson 1790–1866 2 Bernhard von Beskow 1796–1868 3 August Teodor Blanche 1811–68 4 Johan Kristofer Jolin 1818–84 5 Frans Hedberg 1828–1908 6 Per Johan Edvard Bäckström 1841–86

.73 Swedish fiction
.734 **Age of Dalin** 1740–1780
1 Jakob Henrik Mörk 1714–63 2 Jakob Vallenberg 1746–78
.736 **Modern period** 1800–
1 Sofia Margareta von Knorring 1797–1848 2 Magnus Jakob Crusenstolpe 1795–1865 3 Fredrika Bremer 1801–65 4 Karl Anton Wetterbergh (Onkel Adam) 1804–89 5 Emilie Flygare Carlén 1807–92 6 Zakris Topelius 1818–98 7 Viktor Rydberg 1829–95 9 Minor writers

839.74 Swedish essays
.746 **Modern period** 1800–
1 Benjamin Karl Henrik Höijer 1767–1812 2 Lorenzo Hammarsköld 1785–1827 3 Bernhard Elis Malmström 1816–65 4 Karl Julius Lénström 1811–93 5 Gustaf Håkan Jordan Ljunggren 1823–1905 6 Karl Rupert Nyblom 1832–1907

.77 Swedish satire and humor
.776 **Modern period** 1800–
1 Johan Anders Wadman 1777–1837 2 Erik Sjöberg (Vitalls) 1794–1828 3 Kristian Erik Fahlcrantz 1790–1866 4 Vilhelm August Detlof von Braun 1813–60 5 Gunnar Wennerberg 1817–1901

.78 Swedish miscellany
The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books ar placed with their subjects, theology, history, etc.
.781 **Middle ages** 1200–1520
Canon Mattias, *Bible translation*, –1350; Peder Månsson, *Encyclopedia*, –1534
.782 **Reformation** 1520–1640
1 Peder Andersson Svart, *History*, –1562 2 Erik Göransson Tegel, *History*, 1580–1636 3 Ægidius Girs, *History*, 1580–1639 4 Gustavus Adolphus (king), *History*, 1594–1632
.783 **Age of Stjernhjelm** 1640–1740
1 Olof Rudbeck, *Medicin*, 1630–1702 2 Urban Hjärne 1641–1724 3 Johan Peringskjöld, *History*, 1654–1720 4 Anders Rydelius, *Philosofy*, 1671–1738 5 Anders Celsius, *Astronomy*, 1701–44 6 Emanuel Svedenborg, *Theology*, 1688–1772
.784 **Age of Dalin** 1740–1780
1 Karl Gustaf Tessin, *History*, 1695–1770 2 Karl von Linné, *Botany*, 1707–78 3 Johan Ihre, *Philology*, 1707–80 4 Sven Lagerbring, *History*, 1707–87 5 Anders Johan von Höpken, *History*, 1712–89, 6 Olof Celsius, *History*, 1716–94 7 Anders af Botin, *History*, 1724–90 8 Torbern Olof Bergman, *Chemistry*, 1735–84 9 Karl Vilhelm Scheele, *Chemistry*, 1742–86
.786 **Modern period** 1800–
1 Erik Gustaf Geijer, *History*, 1783–1847 2 Anders Magnus Strinnholm, *History*, 1786–1862 3 Anders Fryxell, *History*, 1795–1881 4 Frederik Ferdinand Carlson, *History*, 1811–87

.8 Danish and Norwegian literature

.81 Danish literature

.811 Danish poetry
1 **Middle ages** 1100–1500
1 Anders Sunesen 2 Ballads (Kjæmpeviser)
2 **Reformation** 1500–1560
Hans Tavsen 1494–1561
3 **Learned period** 1560–1700
1 Anders Arrcbo 1587–1637 2 Anders Bording 1619–77 3 Peder Syv 1631–1702 4 Thomas Kingo 1634–1703 7 Sören Terkelsen 1661 8 Jacob Vorm 1642–93
4 **Age of Holberg** 1700–1750
1 Jörgen Sorterup 1662–1723 2 Töger Reenberg 1656–1742 3 Kristian Falster 1690–1752 4 Hans Adolph Brorson 1694–1764 5 Ambrosius Stub 1705–58 6 Kristian Frederik Wadskjær 1712–79
5 **Period of enlightenment** 1750–1800
1 Kristian Braunmann Tullin 1728–65 2 Johannes Evald 1743–81 4 Edvard Storm 1749–94 5 Kristen Henriksen Pram 1756–1821 6 Jens Baggesen 1764–1826 7 Knud Lyne Rahbek 1760–1830 8 Malte Konrad Bruun 1775–1826 9 Minor writers
6 **Modern period** 1800–
1 Adam Gottlob Oehlenschläger 1779–1850 2 Bernhard Severin Ingemann 1789–1862 3 Nicolai Frederik Severin Grundtvig 1783–1872 4 Johannes Carsten Hauch 1790–1871 6 Ludvig Bödtcher 1793–1874 7 Frederik Paludan-Müller 1809–76 8 Carl Ploug 1813–94 9 Minor writers

839.812 Danish drama

3 **Learned period** 1560–1700
1 Hieronimus Justesen Rauch 1539–1607 2 Hans Kristensen Sthen 1544–1603 3 Peder Jensen Hegelund 1542–1614 4 Hans Thomsen Stege –1628 5 Jens Lönberg 1663–1700

4 **Age of Holberg** 1700–1750
1 Ludvig Holberg 1684–1754

5 **Period of enlightenment** 1750–1800
1 Charlotte Dorothea Biehl 1731–88 3 Ole Johan Samsöe 1759–96 4 Enevold Falsen 1755–1808 5 Thomas Thaarup 1749–1821 6 Kristian Levin Sander 1756–1819 7 Olaf Kristian Olufsen 1764–1827 8 Peter Andreas Heiberg 1758–1841 9 Minor writers

6 **Modern period** 1800–
1 Casper Johannes Boye 1791–1855 2 Johan Ludvig Heiberg 1791–1860 3 Henrik Hertz 1798–1870 4 Thomas Overskou 1798–1873 5 Christian Knud Frederik Molbech 1821–88

.813 Danish fiction

6 **Modern period** 1800–
1 Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856 2 Steen Steensen Blicher 1782–1848 3 Christian Winther 1796–1876 4 **Hans Christian Andersen** 1805–75 5 Meyer Aaron Goldschmidt 1819–87 6 Holger Drachmann 1846–1908

.814 Danish essays

5 **Period of enlightenment** 1750–1800
Rasmus Nyerup 1759–1829

6 **Modern period** 1800–
1 Niels Mathias Petersen 1781–1862 2 Sören Aaby Kierkegaard 1813–55 6 Georg Morris Cohen Brandes 1842– 1927

.817 Danish satire and humor

5 **Period of enlightenment** 1750–1800
1 Peder Magnus Trojel 1743–96 2 Peder Kofoed Trojel 1754–84 3 Thomas Kristoffer Bruun 1750–1834

.818 Danish miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books ar placed with their subjects, theology, history, etc.

1 **Middle ages** 1100–1500
1 Saxo (Longus) Grammaticus, *History*, –1208 2 Svend Aagesen, *History*

2 **Reformation** 1500–1560
1 Kristiern Pedersen (Father of Danish literature) 1480–1554 2 Povel Eliesen, *Sermons*, 1480– 3 Hans Mikkelsen, *Bible translation*, –1532 4 Peder Plade (Palladius) 1503–60 5 Henrik Smith, *Medicin*, –1563

3 **Learned period** 1560–1700
History: Hans Svaning 1508–1584 Anders Sörensen Vedel 1542–1616 Arild Hvitfeld 1549–1609 Klaus Lyskander 1558–1623 Ole Worm 1588–1654 Peder Resen 1625–88
Theology: Niels Hemmingsen 1513–1600 Holger Rosenkrantz 1574–1642 Jesper Rasmussen Brochmand 1585–1652
Science: Tyge Brahe, *Astronomy*, 1546–1601 Kaspar Bartholin, *Medicin*, 1585–1629 Thomas Bartholin, *Anatomy*, 1616–80 Ole Borch, *Medicin*, 1626–90 Niels Stensen, *Anatomy*, 1638–86 Ole Römer, *Astronomy*, 1644–1710

4 **Age of Holberg** 1700–1750
1 Erik Pontoppidan, *History*, 1698–1764 2 Jacob Langebek, *History*, 1710–75 3 Frederik Kristian Eilschov, *Education and Philology*, 1725–50 5 Peder Frederik Suhm, *History*, 1728–98

.82 Norwegian literature

Subdivided when needed by form and period like 839.81 Danish literature

.8216 **Modern Norwegian poetry** 1800–
Henrik Wergeland 1808–45

.8226 **Modern Norwegian drama** 1800–
Henrik Ibsen 1828–1906

.8236 **Modern Norwegian fiction** 1800–
Björnstjerne Björnson 1832–1910

.8246 **Modern Norwegian essays** 1800–
Johan Sebastian Cammermeyer Welhaven 1807–73

.9 Gothic

840 French literature

840.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, and addresses on French literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

841 French poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of French poetry

.1 **Early French** 842–1400

.11 Chanson de geste *Chanson de Roland*
.12 Wace, Robert
.13 Marie de France
.14 Chrestien de Troyes –1191
.15 Quesnes de Bethune –1228
.16 Thibaut 4, comte de Champagne 1201–53
.17 Rutebeuf 1230–
.18 **Roman de la rose**
Guillaume de Loris, 1195–1260 Jean de Meung, 1280–1320
.19 Minor poets

.2 **Transition period** 1400–1500

.21 Chartier, Alain 1386–1458
.22 Orléans, Charles duc d' 1391–1465
.23 Coquillart, Guillaume 1421–1510
.24 Baude, Henri 1430–95
.25 Villon, François 1431–85
.26
.27
.28
.29 Minor poets

.3 **Renaissance** 1500–1600

.31 Daurat, Jean 1510–88
.32 Du Bellay, Joachim 1524–60
.33 Belleau, Remy 1528–77
.34 Ronsard, Pierre de 1524–85
.35 Thiard, Pontus de 1521–1605
.36 Baif, Jean Antoine de 1532–89
.37 Du Bartas, Guillaume de Saluste 1544–90
.38 Desportes, Philippe 1546–1606
.39 Minor poets

.4 **Classic period** 1600–1715

.41 Malherbe, François de 1555–1628
.42 Maynard, François 1582–1646
.43 Racan, Honorat de Bueil, marquis de 1589–1670
.44 Chapelain, Jean 1595–1674
.45 **La Fontaine, Jean de** 1621–95
.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637–94
.47 Chaulieu, Guillaume Amfrye de 1639–1720
.48
.49 Minor poets

841.5	**18th century 1715–89**	
.51	Rousseau, Jean Baptiste	1670–1741
.52	Racine, Louis	1692–1763
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–84
.54	Delille, Jacques	1738–1813
.55	Roucher, Jean Antoine	1745–94
.56	Chénier, André Marie de	1762–94
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814
.58		
.59	Minor poets	
.6	**Revolution and empire 1789–1815**	
61	Lebrun, Ponce Denis Écouchard	1729–1807
.62	Fontanes, Louis, marquis de	1757–1821
.63	Parseval Grandmaison, François Auguste	1759–1834
.64	Luce de Lancival, Jean Charles Julien	1764–1810
.65	Désaugiers, Marc Antoine Madeleine	1772–1827
.66	Campenon, François Nicolas Vincent	1772–1843
.67	Millevoye, Charles Hubert	1782–1816
.68		
.69	Minor poets	
.7	**Constitutional monarchy 1815–48**	
.71	**Béranger, Pierre Jean de**	1780–1857
.72	Delavigne, Jean François Casimir	1793–1843 See 842.72
.73	Deschamps, Émile	1791–1871
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869
.75	Reboul, Jean	1796–1864
.76	Vigny, Alfred Victor, comte de	1799–1863 See 842.75
.77	Musset, Louis Charles Alfred de	1810–57 See 842.76
.78	**Hugo, Victor Marie, comte** See also 842.78 and 843.78	1802–85
.79	Minor poets	
.8	**Later 19th century 1848–1900**	
.81	Laprade, Pierre Marin Victor Richard de	1812–83
.82	Dupont, Pierre	1821–70
.83	Banville, Théodore Faullain de	1820–91
.84	Sully-Prudhomme, René François Armand	1839–1907
.85	Coppée, Francis Édouard Joachim	1842–1908 See 842.88
.86	Deroulède, Paul	1846–1914
.87		
.88		
.89	Minor poets	
.91	**Early 20th century 1901–**	

842 French drama

.1	**Early French 842–1400**	
.11	Mysteries and miracles	
.12	Adam de la Halle	1240–86
.13	Bodel, Jean	
.14		
.15		
.16		
.17		
.18		
.19	Minor dramatists	

842.2	**Transition period 1400–1500**	
.21	Gresban, Arnoul	
.22	Michel, Jean	–1493
.23	Gringoire, Pierre	1480–1544
.24		
.25		
.26		
.27		
.28		
.29	Minor dramatists	
.3	**Renaissance 1500–1600**	
.31	Le Coq, Thomas	
.32	Baïf, Lazare de	
.33	La Peruse, Jean Bastier de	1530–55
.34	Jodelle, Étienne	1532–73
.35	Grévin, Jacques	1538–70
.36	La Taille, Jean de	1540–1608
.37	Garnier, Robert	1545–1601
.38	Larivey, Pierre de	1550–1612
.39	Minor dramatists	
.4	**Classic period 1600–1715**	
.41	**Corneille, Pierre**	1606–84
.42	**Molière, Jean Baptiste Poquelin,** ***called***	1622–73
.43	Corneille, Thomas	1625–1709
.44	Boursault, Edme	1638–1701
.45	**Racine, Jean**	1639–99
.46	Brueys, David Augustin de	1640–1723
.47	Dufresny, Charles Rivière	1648–1724
.48	Baron, Michel Boyron, *called*	1653–1729
.49	Minor dramatists	
.5	**18th century 1715–89**	
.51	La Motte, Antoine Houdart de	1672–1731
.52	Crébillon, Prosper Jolyot de	1674–1762
.53	Destouches, Philippe Nericault	1680–1754
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763 See 843.52
.55	Piron, Alexis	1689–1773
.56	**Voltaire, François Marie Arouet de**	1694–1778 See 843.54
.57	Sédaine, Michel Jean	1719–97
.58	Beaumarchais, Pierre Augustin Caron de	1732–99
.59	Minor dramatists	
.6	**Revolution and empire 1789–1815**	
.61	Ducis, Jean François	1733–1816
.62	Collin-Harleville, Jean François	1735–1806
.63	La Harpe, Jean François de	1739–1803 See 844.61
.64	Fabre d'Églantine, Philippe François Nazaire	1755–94
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833
.66	Chenier, Marie Joseph	1764–1811
.67	Picard, Louis Benoît	1769–1828
.68	Lemercier, Louis Jean Népomucène	1771–1840
.69	Minor dramatists	

842.7 **Constitutional monarchy 1815–48**
.71 Soumet, Alexandre 1788–1845
.72 Delavigne, Jean François Casimir 1793–1843 See 841.72
.73 Seribe, Augustin Eugène 1791–1861
.74 Aneelot, Jacques Arsène François Polycarpe 1794–1864
.75 Vigny, Alfred Victor, comte de 1799–1863 See 841.76
.76 Musset, Louis Charles Alfred de 1810–57 See 841.77
.77 **Dumas, Alexandre, the elder** 1806–70 See 843.76
.78 **Hugo, Victor Marie, comte** 1802–85
See also 841.78 and 843.78
.79 Minor dramatists
.8 **Later 19th century 1848–1900**
.81 Labiehe, Eugène Marin 1815–88
.82 Ponsard, François 1824–67
.83 Augier, Guillaume Vietor Émile 1822–89
.84 Dumas, Alexandre, fils 1824–95
.85 Bornier, Henri de 1825–1901
.86 Sardou, Vietorien 1831–1908
.87 Pailleron, Édouard 1834–99
.88 Coppée, Francis Édouard Joachim 1842–1908 See 841.85
.89 Minor dramatists
.91 **Early 20th century 1901–**

843 French fiction

.2 **Transition period 1400–1500**
.21 Christine de Pisan 1363–1431
.22 Jean de Tuim
.23 La Sale, Antoine de 1398–1462
.24 Chastelain, Georges 1403–75
.25
.26
.27
.28
.29 Minor writers
.3 **Renaissance 1500–1600**
.31 Marguerite de Navarre 1492–1549
.32 Desperriers, Bonaventure 1500–44
.33 Herberay, Nicolas d' –1552
.34 Du Fail, Noël –1585
.35 Bouchet, Guillaume 1526–1606
.36 Beroalde de Verville, François 1558–1612
.37
.38
.39 Minor writers
.4 **Classic period 1600–1715**
.41 Urfé, Honoré d' 1568–1625
.42 Gomberville, Marin Le Roy de 1600–47
.43 La Calprenède, Gauthier de Costes de 1602–63
.44 Seudéry, Georges de 1601–67
.45 Seudéry, Madeleine de 1607–1701
.46 Cyrano de Bergerae, Savinien 1620–55
.47 Perrault, Charles 1628–1703
.48 Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de 1634–93
.49 Minor writers

843.5 **18th century 1715–89**
.51 Le Sage, Alain René 1668–1747
.52 Marivaux, Pierre Carlet de Chamblain de 1688–1763 See 842.54
.53 Prévost d'Exiles, Antoine François 1697–1763
.54 **Voltaire, François Marie Arouet de** 1694–1778 See 842.55
.55 Crébillon, Claude Prosper Jolyot de, fils 1707–77
.56 **Rousseau, Jean Jacques** 1712–78
.57 Restif de la Bretonne, Nicolas Edme 1734–1806
.58 Florian, Jean Pierre Claris de 1755–94
.59 Minor writers
.6 **Revolution and empire 1789–1815**
.61 St Pierre, Jacques Henri Bernardin de 1737–1814
.62 **Staël Holstein, Anne Louise Germaine (Necker), baronne de** 1766–1817
.63 Constant de Rebeeque, Henri Benjamin 1767–1830
.64 Maistre, Xavier de 1763–1852
.65 Chateaubriand, François Auguste René, vicomte de 1768–1848
.66
.67
.68
.69 Minor writers
.7 **Constitutional monarchy 1815–48**
.71 Beyle, Marie Henri [de Stendhal] 1783–1842
.72 Nodier, Charles 1790–1844
.73 **Balzac, Honoré de** 1799–1850
.74 Sue, Marie Joseph, *called* Eugène 1804–57
.75 Souvestre, Émile 1806–54
.76 **Dumas, Alexandre, the elder** 1806–70 See 842.77
.77 Gautier, Théophile 1811–72
.78 **Hugo, Victor Marie, comte** 1802–85
See also 841.78 and 842.78
.79 Minor writers
.8 **Later 19th century 1848–1900**
.81 Mérimée, Prosper 1803–70
.82 **Dudevant, Amantine Lucile Aurore Dupin [George Sand]** 1804–76
.83 Feuillet, Octave 1822–90
.84 Flaubert, Gustave 1821–81
.85 Erekmann-Chatrian { Erckmann, Émile 1822–99; Chatrian, Alexandre 1826–90 }
.86 About, Edmond François Valentin 1828–85
.87 Cherbuliez, Vietor 1829–99
.88 Daudet, Alphonse 1840–97
.89 Minor writers
.91 **Early 20th century 1901–**

844 French essays

.3 **Renaissance 1500–1600**
.31 **Montaigne, Michel Eyquem de** 1533–92
.4 **Classic period 1600–1715**
.41 Du Vair, Guillaume 1556–1621
.42 Saint-Évremond, Charles de Marguetel de Saint-Denis de 1613–1703

844.5 **18th century 1715–89**
.51 Fontenelle, Bernard le Bovier de 1657–1757
.52 Montesquieu, Charles le Secondat, baron de 1689–1755
.53 Alembert, Jean le Rond d' 1717–83
.6 **Revolution and empire 1789–1815**
.61 La Harpe, Jean François de 1739–1803 See 842.63
.62 Joubert, Joseph 1754–1824
.63 Courier de Méré, Paul Louis 1772–1825
.64 Senancour, Étienne Pivert de 1770–1846
.7 **Constitutional monarchy 1815–48**
.71 La Mennais, Hugues Félicité Robert de 1782–1854
.72 Villemain, Abel François 1790–1870
.73 Planche, Jean Baptiste Gustave 1808–57
.74 **Sainte Beuve, Charles Augustin** 1804–69
.75 Saint-Marc Girardin 1801–73
.76 Janin, Jules Gabriel 1804–74
.77 Nisard, Jean Marie Napoléon Désiré 1806–88
.8 **Later 19th century 1848–1900**
.81 Quinet, Edgar 1803–75
.82 Renan, Ernest 1823–92
.83 Taine, Hippolyte Adolphe 1828–93
.91 **Early 20th century 1901–**

845 French oratory Subdivided by periods like 841

846 French letters Subdivided by periods like 841

847 French satire and humor
.1 **Early French 842–1400**
.11 Guyot de Provins
.12 *Roman du Renard* See 837.31 and 839.3171
.13 Deschamps, Eustache 1320–1400
.3 **Renaissance 1500–1600**
.31 Marot, Clément 1495–1544
.32 **Rabelais, François** 1495–1553
.33 *La Satyre Ménippée* 1594
.34 Aubigné, Théodore Agrippa d' 1550–1630
.35 Regnier, Mathurin 1573–1613
.4 **Classic period 1600–1715**
.41 Viau, Théophile de 1590–1626
.42 Saint Amant, Marc Antoine Gérard 1594–1661
.43 Scarron, Paul 1610–60
.44 Benserade, Isaac de 1612–91
.45 Furctière, Antoine 1620–88
.46 **Boileau Despréaux, Nicolas** 1636–1711
.47 Regnard, Jean François 1655–1709
.5 **18th century 1715–89**
.51 Gresset, Jean Baptiste Louis 1709–77
.52 Gilbert, Nicolas Joseph Laurent 1751–80
.7 **Constitutional monarchy 1815–48**
.71 Barthélemy, August Marseille 1796–1867
.72 Barbier, Henri Auguste 1805–82

848 French miscellany Subdivided by periods like 841

849 Provençal literature

.1 **Provençal poetry**
.11 1st period 900–1100
Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixt. Country under rule of counts, nominally subject to emperor, really independent til 1486, then reunited to France
.111 Epic poetry
Boethius
.112 Lyric poetry
.119 Minor poetry Didactic
.12 Golden age 1100–1300
Poets mainly knights, but after 1250 almost exclusivly burghers. Lyric most important
.121 Romances of chivalry
Girart de Rossilho
.122 Historical poetry
Croisade contre les Albigeois
.123 Romans d'aventures
Flamenca
.124 Lyric poetry
.125 Bernart de Ventadorn, flourisht about 1140–95
.126 Born, Bertran de " " 1180–95
.127 Arnaut, Daniel " " 1180–1200
.128 Giraut de Bornelh " " 1175–1220
.129 Minor poetry
Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets ar the real Troubadours
.13 Aftermath 1300–1500
Downfall of language and literature owing to lack of content and to political and social causes, specially the crusade against the Albigenses
.131 Poets of school of Toulouse
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324. First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled 'Jeux floraux'
.132 La Noble Leyczon
Religious poetry of Waldenses
.139 Minor poetry
.14 Decadence 1500–1900
Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852
.141 Goudouli, Pierre de 1579–1649
.142 Despourrins, Cyprien 1698–1755
.143 Jasmin, Jacques 1798–1864
.144 Roumanille, Joseph 1818–91
.145 Aubanel, Jos. Marie J. Baptiste Théodore 1829–86
.146 Mistral, Frédéric 1830–1914
.149 Minor poetry
.15 20th century — 1901–

849.9 **Catalan literature**

.91 Catalan poetry

911 1st period 1200–1350

Catalonia before 1137 ruled by French counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. Mss scatterd; few as yet printed. Literature begins with James 1 (1213–76) who made Catalan the state language

For Ramon Muntaner see 849.9813

1 Raimon Lull 1225–1315 2 Febler 1250 9 Minor poets

.912 2d period 1350–1450

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante

.913 **Age of perfection** 1450–

From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. ' Balaguer '

1 March, Ausias –1460, greatest of Catalan poets 2 Fenollar, Bernard 3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia 9 Minor poets

.93 Catalan fiction

.933 **Age of perfection** 1450–

Joanet Martorel –1400. *Tirant lo Blanch*, a chivalric romance

.98 Miscellany

.981 1st period 1200–1350

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner

1 James 1 (The Conqueror) 1213–76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265–1340 4 Ximenes 9 Minor authors

.982 2d period 1350–1450

Prose resists foren influences better than poetry. Many philosofic and theologic writings beside historical works

1 Tomich 2 Turell 9 Minor writers

850 Italian literature

850.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

851 Italian poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Italian poetry

.1 **Early Italian Age of Dante –1375**

To deth of Boccaccio, 1375

.11	Protonotario, Stefano	–1250
.12	Arezzo, Guittone d'	–1294
.13	Guinicelli, Guido	–1276
.14	Cavalcanti, Guido	1260–1300
.15	**Alighieri, Dante**	1265–1321
.16	Pistoia, Cino da	1270–1336
.17	Uberti, Fazio degli	–1369
.18	**Petrarca, Francesco**	1304–74
.19	Minor poets	

.2 **Period of classic learning 1375–1492**

From deth of Boccaccio, 1375, to deth of Lorenzo il Magnifico, 1492

.21	Frezzi, Federigo	–1416	
.22	Bojardo, Matteo	1430–94	
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448–92	
.24	**Poliziano, Angelo**	1454–94	See 852.22
.25	Benivieni, Girolamo	1453–1542	
.26	Sannazzaro, Jacopo	1458–1530	
.29	Minor poets		

.3 **Age of Leo the Tenth 1492–1542**

From deth of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542

.31	Bembo, Pietro	1470–1547	
.32	**Ariosto, Lodovico**	1474–1533	
.33	Rucellai, Giovanni	1475–1526	
.34	Molza, Francesco	1483–1544	See 853.35
.35	Tasso, Bernardo	1493–1569	
.36	Alamanni, Luigi	1495–1556	
.37	Guidiccioni, Giovanni	1500–41	
.38	Casa, Giovanni della	1503–56	
.39	Minor poets		

.4 **Later 16th century 1542–85**

From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585

.41	Costanzo, Angelo di	1507–91
.42	Rota, Bernardino	1509–75
.43	Tansillo, Luigi	1510–68
.44	Magno, Celio	1536–1602
.45	Guarini, Giovambattista	1537–1612
.46	**Tasso, Torquato**	1544–95
.47	Baldi, Bernardino	1553–1617
.49	Minor poets	

851.5	**Period of decline** 1585–1748		
	From pontificate of Sixtus 5, 1585–90, to peace of Aix-la-Chapelle, 1748		
.51	Chiabrera, Gabriello	1552–1637	
.52	Marini, Giovambattista	1569–1625	
.53	Testi, Fulvio	1593–1646	
.54	Filicaja, Vincenzo da	1642–1707	
.55	Guidi, Alessandro	1650–1712	
.56	Manfredi, Eustachio	1674–1738	
.57	Frugoni, Carlo Innocenzo	1692–1768	
.58	Algarotti, Francesco	1712–64	
.59	Minor poets		
.6	**Period of renovation** 1748–1814		
	From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814		
.61	Paradisi, Agostino	1736–83	
.62	Mascheroni, Lorenzo	1750–1800	
.63	Pindemonte, Ippolito	1753–1828	
.64	Monti, Vincenzo	1754–1828	
.65	Cassi, Francesco	1778–1846	
.66	Foscolo, Ugo	1779–1827	
.67	Arici, Cesare	1782–1836	
.68	Sestini, Bartolommeo	1792–1822	
.69	Minor poets		
.7	**Early 19th century** 1814–59		
	From congress of Vienna, 1814, to war of Independence, 1859		
.71	Berchet, Giovanni	1783–1851	
.72	Rossetti, Gabriello	1783–1854	
.73	Manzoni, Alessandro	1785–1873	See 853.72
.74	Marchetti, Giovanni	1790–1852	
.75	Leopardi, Giacomo	1798–1837	
.76	Carrer, Luigi	1801–50	
.77	Regaldi, Giuseppe	1809–83	
.78	Prati, Giovanni	1815–84	
.79	Minor poets		
.8	**Later 19th century** 1859–1900		
	From war of Independence, 1859, to 1900		
.81	Aleardi, Aleardo	1810–78	
.82	Zanella, Giacomo	1820–88	
.83	Gnoli, Domenico	1838–	
.84	Carducci, Giosuè	1835–1907	
.85	Fogazzaro, Antonio	1842–1911	
.86	Rapisardi, Mario	1844–	
.87	Guerrini, Olindo	1845–	
.88			
.89	Minor poets		
.91	**Early 20th century** 1901–		

852 Italian drama

.1	**Early Italian Age of Dante** –1375		
.2	**Period of classic learning** 1375–1492		
.21	Belcari, Feo	1410–84	
.22	Poliziano, Angelo	1454–94	See 851.24
.29	Minor dramatists		

852.3	**Age of Leo the Tenth** 1492–1542		
.31	Machiavelli, Niccolò	1469–1527	See also 854.31
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520	
.33	Trissino, Gian Giorgio	1478–1550	
.34	Aretino, Pietro	1492–1556	
.35	Ambra, Francesco d'	–1558	
.39	Minor dramatists		
.4	**Later 16th century** 1542–85		
.41	Speroni, Sperone	1500–88	
.42	Giraldi, G. B. Cinzio	1504–73	See also 853.44
.43	Cecchi, Giovanni Maria	1517–87	
.44	Asinari, Federigo	1527–76	
.45	Porta, Giovambattista della	1538–1615	
.49	Minor dramatists		
.5	**Period of decline** 1585–1748		
.51	Buonarroti, Michelagniolo, jr	1564–1646	
.52	Rinuccini, Ottavio	1565–1622	
.53	Andreini, Giovambattista	1578–1650	
.54	Gigli, Girolamo	1660–1722	
.55	Zeno, Apostolo	1669–1750	
.56	Maffei, Scipione	1675–1755	
.57	Metastasio, Pietro A.D.B. (Trapassi)	1698–1782	
.59	Minor dramatists		
.6	**Period of renovation** 1748–1814		
	For Manzoni, see 851.73 and 853.72		
.61	Goldoni, Carlo	1707–73	
.62	Gozzi, Carlo	1722–1806	
.63	Capacelli Albergati, Francesco	1728–1804	
.64	Alfieri, Vittorio	1749–1803	
.65	Nota, Alberto	1775–1847	
.66	Biondi, Luigi	1776–1839	
.67	Benedetti, Francesco	1785–1821	
.69	Minor dramatists		
.7	**Early 19th century** 1814–59		
.71	Niccolini, Giovambattista	1782–1861	
.72	Pellico, Silvio	1788–1854	
.73	Giacometti, Paolo	1816–81	
.74	Gherardi del Testa, Tommaso	1818–82	
.75	Ferrari, Paolo	1822–89	
.79	Minor dramatists		
.8	**Later 19th century** 1859–1900		
.81	Bersezio, Vittorio	1830–1900	
.82	Cossa, Pietro	1833–82	
.83	Carrera, Valentino	1834–95	
.84	Marenco, Leopoldo	1831–99	
.85	Cavallotti, Felice	1842–98	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor dramatists		
.91	**Early 20th century** 1901–		

853 Italian fiction

.1	**Early Italian Age of Dante**	**–1375**	
.11	"Cento Novelle Antiche" (Gualteruzzi's collection)		
.12	Barberino, Francesco da	1264–1348	
.13	Pisa, Guido da	–1350	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–75	
.19	Minor writers		
.2	**Period of classic learning**	**1375–1492**	
.21	Sacchetti, Franco	–1400	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–97	
.24	Mangabotti, Andrea dei		
.25	Gherardi, Giovanni, da Prato 15th century		
.29	Minor writers		
.3	**Age of Leo the Tenth**	**1492–1542**	
.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561	
.33	Molza, Francesco	1483–1544	See also 851.34
.34	Firenzuola, Agnolo	1493–1548	
.39	Minor writers		
.4	**Later 16th century**	**1542–85**	
.41	Grazzini, Antonfrancesco (Lasca)	1503–83	
.42	Doni, Antonfrancesco	1513–74	
.43	Erizzo, Sebastiano	1525–85	
.44	Giraldi, G. B. Cinzio	1504–73	See also 852.42
.45	Parabosco, Girolamo	–1560	
.49	Minor writers		
.5	**Period of decline**	**1585–1748**	
.6	**Period of renovation**	**1748–1814**	
.7	**Early 19th century**	**1814–59**	
.71	Rosini, Giovanni	1776–1855	
.72	**Manzoni, Alessandro**	1785–1873	See also 851.73
.73	Grossi, Tommaso	1791–1853	
.74	Guerrazzi, Francesco Domenico	1804–73	
.75	Bresciani, Antonio	1798–1862	
.76	Cantù, Cesare	1807–95	
.77	Carcano, Giulio	1812–83	
.78	Azeglio, Massimo d'	1800–66	
.79	Minor writers		
.8	**Later 19th century**	**1859–1900**	
.81	Castellazzo, Luigi	1827–90	
.82	Barrili, Anton Giulio	1836–1908	
.83	Capuana, Luigi	1839–1917	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaele	1838–	
.88	Serao, Matilde	1856–	
.89	Minor writers		
.91	**Early 20th century**	**1901–**	

854 Italian essays

.1	**Early Italian Age of Dante**	**–1375**	
.11	Cavalca, Fra Domenico	–1342	
.12	Passavanti, Fra Jacopo	–1357	
.2	**Period of classic learning**	**1375–1492**	
.21	Alberti, Leone Battista	1404–72	
.22	Palmieri, Matteo	1405–75	
.23	Bisticci, Vespasiano da	1421–98	
.24	Collenuccio, Pandolfo	–1504	
.25	Vinci, Leonardo da	1452–1519	
.29	Minor essayists		
.3	**Age of Leo the Tenth**	**1492–1542**	
.31	Machiavelli, Niccolò	1469–1527	See also 852.31
.32	Nardi, Jacopo	1476–1555	
.33	Castiglione, Baldassare	1478–1529	
.34	Guicciardini, Francesco	1482–1540	
.35	Giannotti, Donato	1494–1573	
.36	Giambullari, Pier Francesco	1495–1555	
.37	Gelli, Giovambattista	1498–1563	
.38	Varchi, Benedetto	1503–66	
.39	Minor essayists		
.4	**Later 16th century**	**1542–85**	
.41	Castelvetro, Ludovico	1505–71	
.42	Piccolomini, Alessandro	1508–78	
.43	Borghini, Vincenzo	1515–80	
.44	Davanzati, Bernardo	1529–1606	
.45	Salviati, Leonardo	1540–89	
.46	Ammirato, Scipione	1531–1601	
.47	Paruta, Paolo	1540–98	
.48	Botero, Giovanni	1540–1617	
.49	Minor essayists		
.5	**Period of decline**	**1585–1748**	
.51	Sarpi, Paolo	1550–1623	
.52	Galilei, Galileo	1564–1642	
.53	Bartoli, Daniello	1608–85	
.54	Dati, Carlo	1619–75	
.55	Gravina, Giovanni Vincenzo	1664–1718	
.56	Muratori, Ludovico Antonio	1672–1750	
.57	Giannone, Pietro	1676–1748	
.58	Zanotti, Francesco Maria	1692–1777	
.59	Minor essayists		
.6	**Period of renovation**	**1748–1814**	
.61	Bettinelli, Saverio	1718–1808	
.62	Denina, Carlo	1730–1813	
.63	Tiraboschi, Girolamo	1731–94	
.64	Lanzi, Luigi	1732–1810	
.65	Beccaria, Cesare	1735–93	
.66	Filangeri, Gaetano	1752–88	
.67	Cesari, Antonio	1760–1828	
.68	Perticari, Giulio	1779–1822	
.69	Minor essayists		

854.7 **Early 19th century** 1814–59
.71 Costa, Paolo 1771–1836
.72 Giordani, Pietro 1774–1848
.73 Troya, Carlo 1785–1859
.74 Balbo, Cesare 1789–1853
.75 Capponi, Gino 1792–1878
.76 Mamiani della Rovere, Terenzio 1800–85
.77 Gioberti, Vincenzo 1801–53
.78 Tommaséo, Niccolò 1802–74
.79 Minor essayists
.8 **Later 19th century** 1859–1900
.81 Sanctis, Francesco de 1818–83
.82 Bonghi, Ruggiero 1827–95
.83 Conti, Augusto 1822–1905
.84 Villari, Pasquale 1827–1917
.85 Ardigò, Roberto 1828–1920
.86 Comparetti, Domenico 1835–
.87 Zumbini, Bonaventura 1840–
.88 Panzacchi, Enrico 1841–1904
.89 Minor essayists
.91 **Early 20th century** 1901–

855 Italian oratory Subdivided by periods like 851
856 Italian letters " " " " "
857 Italian satire and humor
.1 **Early Italian Age of Dante** –1375
.11 Gemignano, Folgore da San
.12 Chitarra, Cene dalla
.13 Angiulieri, Cecco
.14 Pucci, Antonio –1377
.19 Minor writers
.2 **Period of classic learning** 1375–1492
.21 Burchiello, Domenico 1395–1448
.22 Pulci, Luigi 1432–84
.23 Vinciguerra, Antonio
.29 Minor writers
.3 **Age of Leo the Tenth** 1492–1542
.31 Folengo, Teofilo (Merlin Cocai) 1491–1544
.32 Berni, Francesco 1496–1535
.39 Minor writers
.4 **Later 16th century** 1542–85
.41 Nelli, Pietro
.42 Beccuti, Francesco 1509–53
.43 Caporali, Cesare 1531–1601
.49 Minor writers

857.5 **Period of decline** 1585–1748
.51 Tassoni, Alessandro 1565–1635
.52 Bracciolini, Francesco 1566–1645
.53 Lalli, Giovambattista 1572–1637
.54 Lippi, Lorenzo 1606–64
.55 Rosa, Salvatore 1615–73
.56 Menzini, Benedetto 1646–1704
.57 Sergardi, Ludovico 1660–1726
.58 Fortiguerri, Niccolò 1674–1735
.59 Minor writers
.6 **Period of renovation** 1748–1814
.61 Gozzi, Gasparo 1713–86
.62 Passeroni, Gian Carlo 1713–1803
.63 Casti, Giovanni Battista 1721–1803
.64 Parini, Giuseppe 1739–99
.65 Baretti, Giuseppe 1716–89
.66 Elci, Angelo Maria d' 1754–1824
.67 Pananti, Filippo 1766–1837
.69 Minor writers
.7 **Early 19th century** 1814–59
.71 Giusti, Giuseppe 1809–50
.8 **Later 19th century** 1859–1900
.91 **Early 20th century** 1901–

858 Italian miscellany
.8 **Later 19th century** 1859–1900
.81 Gubernatis, Angelo de 1840–
.82 Amicis, Edmondo de 1846–1908

859 Rumanian literature

Wallachian
.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany

.9 **Romansh literature**
Subdivided like 859

860 Spanish literature

860.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Spanish literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

861 Spanish poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Spanish poetry

.1 Early Spanish –1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs; 711–1492 Arabic period or Age of reconquest
Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11–.12). These wer followd by an erudite tendency toward classic tradition neglecting national themes (861.13 and .14) which wer however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences wer introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 Primitiv monuments
.12 **Poema de mio Cid**
.13 Berceo, Gonzalo de 1196–1266
.14 Segura de Astorga, Juan Lorenzo 1250
.15 Yañez Ruy (Cronica del Rey Alfonso Onceno)
.16 Sem Tob, Rabbi 1350
.19 Minor poets

.2 Age of imitation 1369–1516

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There wer 3 distinct schools:

1 Provençal, specially influential at court
2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)
3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

.21 Lopez de Ayala, Pedro 1332–1407
.22 Mena, Juan de 1411–56
.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458
.24 Manrique, Jorge 1440–79
.25 Los Cancioneros } Collections of poetry
.26 Los Romances }
.27 **Romancero del Cid**
'Romances' popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492
.29 Minor poets

861.3 Golden age 1516–1700

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera — 16th century; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–67; **Murillo** 1618–82, etc. Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with deth
Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of 'bad taste' appear (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. Bad taste consisted in artificialities, exaggerations, obscurities, etc.

.31 Garcilaso de la Vega 1503–36
.32 Castillejo, Cristóbal de 1494–1596
.33 Leon, Luis Ponce de 1528–91
Leon is equally important in prose
.34 Los Argensolas: Lupercio 1563–1613
Bartolomé Leonardo 1564–1631
.35 Herrera, Fernando de 1534–97
.36 Hurtado de Mendoza, Diego 1503–75
.37 Góngora y Argote, Luis de 1561–1627
.38 Rioja, Francisco de 1600–59
.39 Minor poets

.4 18th century 1700–1800

At deth of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, continued to rule til 1931. Spanish political importance lost. At opening of century complete decadence, 'bad taste' everywhere dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, til close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimd by Luzan (1702–54) in *La poetica*, etc. Thereafter a kind of revival. 3 schools formd:

1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)
2 Antique national, protesting against introduction of French taste. Huerta (861.43)
3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (863.42). 'Prosaism' production of exaggerated opposition to Gongorism or 'bad taste' also characterizes period. Influence of French encyclopedism also manifest. Development of science checkt by religious (Inquisition) and political despotism. Rich development of fables and apologs in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

.41 Moratin (the Elder), Nicolás Fernandez de 1737–80
.42 Cadalso, José de 1741–82
.43 Huerta, Vicente Antonio García de la 1734–87
.44 Samaniego, Félix María de 1745–1801
.45 Iriarte y Oropesa, Tomás de 1750–91
.46 Valdés, Juan Melendez 1754–1817
.47 Iglesias de la Casa, José 1748–91
.48 Cienfuegos, Nicasio Alvarez de 1764–1809
.49 Minor poets

861.5 **19th century** **1800–1900**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) queld. Isabella driven from throne by revolution 1868; 1870–73 Amadeo (Savoy house); 1873, Amadeo abdicates and republic proclaimd; monarchy restored with Alfonso 12th in 1875

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism reintroduced and revolution followd. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awakening with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53)

.51 Quintana, Manuel José 1772–1857
.52 Espronceda, José de 1810–42
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–84
.55 Gil y Zárate, Antonio 1792–1861
.56 Hartzembusch, Juan Eugenio 1806–80
.59 Minor poets

.6 **Early 20th century** **1901–**

862 Spanish drama

.2 **Age of imitation** **1369–1516**

Evidences of existence of 'mysteries' but no remains

.21 Enzina, Juan del (?)1468–1534

.3 **Golden age** **1516–1700**

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas), 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the *Index*. Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence

.31 Vega Carpio, Lope Felix de 1562–1635
.32 Castro y Belvis, Guillen de 1569–1631
.33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570–1648
.34 Ruiz de Alarcon y Mendoza, Juan (?)1580–1639
.35 **Calderon de la Barca, Pedro** 1600–81
.36 Rojas Zorrilla, Francisco de 1607–48
.37 Moreto y Cabaña, Agustin 1618–69
.39 Minor dramatists

.4 **18th century** **1700–1800**

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit caracterizing mass of writers, Comella (862.41) — Period of unrest; old ideas can not be reestablisht, new can not be naturalized. For Moratin the elder, see 861.41; Huerta, 861.43

.41 Comella, Luciano Francisco 1716–79
.42 Moratin, Leandro Fernandez de 1760–1828
.43 Cruz Cano y Olmedilla, Ramon Francisco de la 1731–94
(Light comedies)
.49 Minor dramatists

.5 **19th century** **1800–1900**

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch 861.56

.51 Martinez de la Rosa, Francisco 1789–1862
.52 Rodriguez Rubí, Tomás 1817–90
.53 Bretón de los Herreros, Manuel 1796–1873
.59 Minor dramatists

.6 **Early 20th century** **1901–**

863 Spanish fiction

.2 **Age of imitation** **1369–1516**

Immense vogue of books of chivalry despite legislation til publication of *Don Quijote;* thereafter only one written. [First part of Quijote printed 1605]

.21 Books of chivalry
.22 **Amadis de Gaula**
.23 *Celestina*

.3 **Golden age** **1516–1700**

Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e. g. Mendoza's *Lazarillo de Tormes*. For Mendoza, see 861.36

.31 Montemayor, Jorge de 1520–61
.32 **Cervantes Saavedra, Miguel de** 1547–1616
.39 Minor novelists

.4 **18th century** **1700–1800**

.5 **19th century** **1800–1900**

For Bretón de los Herreros, sec 862.53; and Rodriguez Rubí, 862.52

.51 Larra, Mariano José de [Figaro] 1809–37
.52 Mesonero y Romanos, Ramón de 1803–82
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877
.59 Minor writers

.6 **Early 20th century** **1901–**

864 Spanish essays

Subdivided by periods like 861

865 Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restraind. Sacred cloquence less employd by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

.1 **Early Spanish** **–1369**

.2 **Age of imitation** **1369–1516**

.3 **Golden age** **1516–1700**

For Luis de Leon, see 861.33; and Luis de Granada, 868.32

.4 **18th century** **1700–1800**

For Jovellanos, see 868.42; and Valdés, 861.46

.5 **19th century** **1800–1900**

.51 Olozaga, Salustiano de 1803–73
.52 Castelar, Emilio 1832–99

.6 **Early 20th century** **1901–**

866 Spanish letters

.3 **Golden age** **1516–1700**

Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33

.31 Avila, Juan de 1502–69
.32 Perez, Antonio 1540–1611
.39 **Minor writers**

867 Spanish satire and humor

.1 Early Spanish –1369

Ruiz, Juan (Arcipreste de Hita) 1350

.2 Age of imitation 1369–1516

Coplas de Mingo Revulgo

.3 Golden age 1516–1700

Quevedo Villegas, Francisco Gomez de 1580–1645

.4 18th century 1700–1800

For Cadalso, see 861.42; and Moratin the younger, 862.42

.41 Jorge Pitillas (a pseudonym)

.42 Isla, José Franeisco de (el Padre) 1703–81

868 Spanish miscellany

.1 Early Spanish –1369

.11 Alfonso 10, el Sábio 1221–84

.12 Sancho el Bravo (4th of Castile) 1258–95

.13 Juan Manuel, infante of Castile 1282–1347

.14 Alfonso 11 1310–50

.19 Minor writers

.2 Age of imitation 1369–1516

General and special histories, books of travel, works cald forth by Boccaccio's *Corvaccio*, etc.

.3 Golden age 1516–1700

Didactic prose. Considerable development, tho less than poetry, owing in great mesure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadenceyra and Luis de Leon, representativs of Mystic school

For Luis de Leon, see 861.33; and Quevedo Villegas, 867.3

.31 Mariana, Juan de, founder of Spanish history 1536–1623

.32 Granada, Luis de 1504–88

.33 Teresa de Jesús, Santa 1513–82

.34 Cruz, San Juan de la 1542–91

.35 Rivadeneyra, Pedro de 1527–1611

.36 Saavedra Fajardo, Diego de 1584–1648

.39 Minor writers

.4 18th century 1700–1800

Under Carlos 3d (1759–88) scientific studies took a fresh start, due largely to Feijóo, who attempted intellectual emancipation of Spain. Prose advances und r French influence, Gallicisms introduced

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764

.42 Jovellanos, Gaspar Melchor de 1744–1811

.49 Minor writers

.5 19th century 1800–1900

For Hartzembusch, J E, see 861.56

.51 Gayangos, Pascual de 1809–97

.52 Rios, José Amador de los 1818–78

.53 Milá y Fontanals, Manuel 1818–84

.59 Minor writers

.6 Early 20th century 1901–

868.99 Spanish dialect and local literature

.991 General questions

1–8 divided by literary form like 811–818, e.g. 868.9911 Spanish dialect poetry

.992 Spanish dialect and local literature of Spain

Divided like 946, under each 1–8 may be used for literary form like 811–818, etc. as explaind under 818.94; e.g. 868.9924 Spanish literature of New Castile, 868.99242 Spanish drama of New Castile

.994–.999 Other Spanish dialect and local literature divided geografically like 940–999, under each 1–8 may be used for literary forms like 811–818; e.g. 868.99694921 Spanish poetry of Spanish Morocco. For detaild statement of procedure see note under 818.94. For application of method see 868.997–.998 North and South American Spanish literature

.997 North American Spanish literature

1–8 Literary forms (1 Poetry, 2 Drama, etc. like 811–818), e.g. 868.9971 North American Spanish poetry

9 North American local Spanish

Divided like 971–979, using 1–8 after each geografic subdivision for literary forms; e.g. 868.99792 Mexican Spanish literature, 868.997921 Mexican Spanish poetry; 868.997929 Mexican local, 868.9979295 Spanish literature of Mexico City and Federal district; 868.99798 Central American Spanish literature, 868.9979891 Guatemalan Spanish literature; 868.99799 Spanish literature of West Indies, 868.99799911 Cuban poetry

.998 South American Spanish literature

Spanish American literature in general 1 Poetry, 2 Drama, 3 Fiction, 4 Essays, 5 Oratory, 6 Letters, 7 Satire and humor, 8 Miscellany

9 South American local

Divided like 981–989, using 1–8 under each geografie subdivision for literary forms

92 Argentine Spanish literature

921 Poetry, 922 Drama; etc.

929 Argentine local

93 Chilean Spanish literature

931 Poetry, 932 Drama; etc.

939 Chilean local

Etc.

869 Portuguese literature

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany

.8998 **South American Portuguese literature**

81–88 Literary forms, 89 Local, 891 Brazilian

.9 **Galician literature**

Subdivided like 869

870 Latin literature

.1 Philosofy .2 Compends .3 Dictionaries, cyclopedias .4 Essays on Latin literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections
.9 History of Latin literature
For 'classic' literature (including both Greek and Latin) see 880

871 Latin poetry in general

See Dramatic, Epic and Lyric below

.1 **Lucretius Carus, Titus**
.2 **Ovid (Publius Ovidius Naso)**
.3 **Hyginus, Caius Julius**
.4 **Faliscus, Gratius**
.5 **Manilius, Marcus**
.6 **Phaedrus**
.7 **Lucilius Junior** *Ætna*
.8

872 Latin dramatic poetry

.1 **Andronicus, Livius**
.2 **Naevius, Cnaeus**
.3 **Plautus, Titus Maccius**
.4 **Ennius**
.5 **Terence (Publius Terentius Afer)**
.6 **Seneca, Lucius Annaeus** See also 878.5
.7

873 Latin epic poetry

.1 **Virgil (Publius Virgilius Maro)**
.2 **Lucanus, Marcus Annaeus**
.3 **Flaccus, Caius Valerius**
.4 **Silius Italicus, Tiberius Caius**
.5 **Statius, Publius Papinius**
.6

874 Latin lyric poetry

.1 **Catullus, Tibullus and Propertius**
.2 Catullus, Valerius
.3 Tibullus, Albius
.4 Propertius, Sextus Aurelius
.5 **Horace (Quintus Horatius Flaccus)** See also 877.3
.6 **Calpurnius Siculus**
.7

875 Latin oratory

.1 **Cicero, Marcus Tullius: complete works**
For Cicero's letters see 876.1

.2 Orations

.3 Rhetorical works

.4 Philosofic works See also 186.3

.5 **Messala Corvinus, Marcus Valerius**

.6 **Quintilian (Marcus Fabius Quintilianus)**

.7

876 Latin letters

.1 **Cicero, Marcus Tullius** For his other works see 875.1–875.4

.2 **Pliny (Caius Plinius Caecilius Secundus)**

.3 **Fronto, Marcus Cornelius**

.4

877 Latin satire and humor

.1 **Lucilius, Caius**

.2 **Cato, Valerius**

.3 **Horace** See 874.5

.4 **Persius Flaccus, Aulus**

.5 **Petronius Arbiter, Caius**

.6 **Martial (Marcus Valerius Martialis)**

.7 **Juvenal (Decimus Junius Juvenalis)**

878 Latin miscellany

.1 **Caesar, Caius Julius**

.2 **Sallust (Caius Sallustius Crispus)**

.3 **Nepos, Cornelius**

.4 **Livy (Titus Livius Patavinus)**

.5 **Seneca, Lucius Annaeus** See also 872.6 and 188.6

.6 **Tacitus, Caius Cornelius**

.7 **Suetonius Tranquillus, Caius**

.8 **Curtius Rufus, Quintus**

.9 **Other writers**

879 Medieval and modern Latin Other Italic

Romance literatures in general
Subdivided like 820. .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

880 Greek literature

Classic literature
.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Greek literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Greek literature

881 Greek poetry in general
See Dramatic, Epic, and Lyric, below

.1 **Theognis**

.2 **Aratus**

.3 **Lycophron**

.4 **Babrius**

882 Greek dramatic poetry

.1 **Æschylus**

.2 **Sophocles**

.3 **Euripides**

.4 **Aristophanes**

.5 **Epicharmus**

.6 **Menander**

883 Greek epic poetry

.1 **Homer**

.2 **Hesiod**

.3 **Apollonius Rhodius**

.4 **Oppian**

.5 *Orphic poems*

884 Greek lyric poetry

.1 **Tyrtaeus**

.2 **Sappho**

.3 **Anacreon**

.4 **Simonides of Ceos**

.5 **Pindar**

.6 **Theocritus**

.7 **Bion**

.8 **Callimachus**

.9 **Other Greek lyric poets**

885 Greek oratory
- .1 **Andocides**
- .2 **Lysias**
- .3 **Isaeus**
- .4 **Isocrates**
- .5 **Æschines**
- .6 **Demosthenes**
- .7 **Hyperides**
- .8 **Lycurgus**
- .9 **Other Greek orators**

886 Greek letters
- .1 **Themistocles**
- .2 **Alciphron**
- .3 **Phalaris**

887 Greek satire and humor

For comedies of Aristophanes see 882.4
- .1 **Archilochus**
- .2 **Simonides of Samos**
- .3 **Hipponax**

888 Greek miscellany
- .1 **Herodotus**
- .2 **Thucydides**
- .3 **Xenophon**
- .4 **Plato** See also 184.1 Platonic philosofy
- .5 **Aristotle** See also 185.1 Aristotelian philosofy

  Or, if preferd, the works of Plato and Aristotle may be put in 184.1 and 185.1
- .6 **Æsop**
- .7 **Lucian**
- .8 **Plutarch** See also 186.2
- .9 **Other writers**

889 Medieval and modern Greek Other Hellenic

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

890 Literature of other languages

Subdivided like 490, Philology of other languages. If wisht 1 Poetry; 2 Drama, etc., can be used after the language number; e.g. Russian drama is 891.72, Hebrew poetry 892.41. Bengali poetry 891 441. See also Supplementary table 3

History

Thruout local history, 930–999, single 0 divisions ar reservd for historical periods, except in general Irish (941.5) and general U. S. (973) history. Period divisions designated for the history of any country may be applied to any of its subdivisions; e.g. 942.06 History of England under the Stuarts, 942.6706 History of Essex co., Eng., under the Stuarts

900 History in general

901–909 all hav *History in general* as their subject, but it is treated in these various *forms*. A periodical on English history goes in 942.005, not 905, which is only for periodicals on history in general. Naught (0) in any clas number in any part of the classification shows the subject to be general, not specific

901 Philosofy, theories, etc. History of civilization

902 Compends, chronologies, charts, outlines

For chronology as a science, see 529

903 Dictionaries, cyclopedias, etc.

904 Essays, lectures, addresses

905 Periodicals, historical magazines

906 Societies, transactions, etc.

907 Historiografy, methods of teaching, writing, etc.

908 Polygrafy, collected works, extracts, etc.

909 Universal and general modern histories

For general Ancient histories, see 930

.1 A. D. 476—1199	.5 1500—1599	.81 1800—99
.2 1200—1299	.6 1600—1699	.82 1900—99
.3 1300—1399	.7 1700—1799	
.4 1400—1499	.8 1800—	

910 Geografy Travels Description

Including topografy, maps, antiquities, descriptions, etc.
For map projection, see 526.8. See also 310 Statistics, 390 Customs and costumes
For directories, guidebooks, gazetteers, etc. of special countries or geografic sections see under those sections, 913–919

- .1
- .2 **Traveler's manuals, guidebooks**
- .3 **Dictionaries, gazetteers**
- .4 **Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures**
- .5 **Periodicals**
- .6 **Societies**
- .7 **Study and teaching of geografy: school map drawing**

  For primary teaching of geografy see 372.891
- .8 **Collections of travels, etc.**
- .9 **History of geografy, travels, explorations, etc.**

911 Historic Growth and changes in political divisions, etc. Subdivided like 930–999

912 Maps, atlases, plans of cities, etc.
Subdivided like 930–999

913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs

.3 **Antiquities of ancient countries**
Subdivided like 930, e. g. 913.32 Egyptian antiquities. Antiquities of countries having both ancient and modern history numbers should be clast in 913.3 unles: the antiquities relate wholly or mainly to the country after it entered the 'modern' period

.4–.9 **Antiquities of modern countries**
Subdivided like 940–999, e. g. 913.42 English antiquities. See aiso note under 913.3

914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceania and Polar regions

914–919 is subdivided like 940–999. Whenever these main geografic hedings occur they may be subdivided exactly like History. The full list of subheds is printed only under 940–999. In assigning numbers to travels, use the history tables, *insert* 1 *after the initial* 9, and move the decimal point; e. g. Guide to N.Y.city is 917.471, for N.Y. city in history tables is 974.71

920 Biografy

Including autobiografy, diaries, personal narrativs, eulogies, biografic dictionaries, etc. All biografy is here groupt together under the main classes, and subdivided in the same way with the variations indicated below for Philosofy, Theology, and Sociology, i. e. the biografy of science is divided like science itself, see 500–599. Lives of chemists ar 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to giv each life the number of the subject it illustrates most, or to the student of which it wil be most useful

Lives which wil not go under any hed without 'forcing' ar best put in a single alfabet under the 3 figures 920 for men and under 920.7 for women

Another plan is to scatter biografy with the other books, using 920–928 only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 instead of 925.8, and goes with botanic books. This plan may be carried out more specificly where 9 has been used for the history of a subject, by adding for biografy the figure 2, making the life of a botanist 580,92

A 3d plan, specially adapted to public libraries, is to arrange all individual biografies in a single alfabet under 92 (better than B, which is often used but which has no logical position in a numeric arrangement). Group 92 may be shelvd before 920, under which all collectiv biografies may be arranged in a single alfabet, but it is generally better to distribute these under more specific numbers 921–928 printed below

General and collectiv by localities

Including only collected lives too general to go under any subject heding

.01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceania

920.03–.09 Divided like 930–999

920 Individual and collectiv by subjects

.1 **Bibliografers**
.2 **Librarians**
.3 **Encyclopedists**
.4 **Publishers** **Booksellers**
.5 **Journalists**
.6 **Academicians**
.7 **Women** Collected, and individual lives not clearly going with any subject
.8 **Eccentrics, cranks, fools, insane, etc.** See also 132.1 Insanity
.9 **Other special classes not included in 921–928**
Divided like the whole classification, e.g. 920.9139 Phrenologists, 920.99291 Genealogists

921 Of philosofy

.1 **American** **Canadian**
For Latin American (Mexican, etc.) see under 921.8
.2 **British**
English, Scotch, Irish, Welsh. For Canadian see 921.1
.3 **German** **Austrian**
.4 **French**
.5 **Italian**
.6 **Spanish**
.69 **Portuguese**
.7 **Slavic, etc.**
Divided like 947
.8 **Other modern**
Divided like 940–999, except for those specially provided for above and modern oriental to be clast in 921.9; e.g. 921.8438 Polish, 921.8485 Swedish, 921.8492 Dutch, 921.872 Mexican
.9 **Ancient** **Oriental** **Patristic** **Scholastic** See 180–289

922 Of religion: clergy, missionaries, preachers

922.1–922.88 may be subdivided for nationality like 930–999

.1 **Primitiv apostles, fathers, etc. oriental, Greek, Russian**
See 225.92 for New Testament biografy
.2 **Roman catholic: popes, cardinals, etc.**
.21 Lives of popes .22 Hagiology
.3 **Anglican and protestant episcopal**
.4 **Continental protestant: Lutheran, Huguenot**
.5 **Presbyterian and congregational**
.6 **Baptist** **Immersionist**
.7 **Methodist**
.8 **Unitarian, universalist and other Christian**
.81 Unitarian Universalist
.83 Mormons
.84 New church or Swedenborgian
.85 Christian science
.86 Quaker
.87 Mennonite
.88 Shaker
.89 **Other Christian sects**

922.9 Nonchristian
.91 Atheist
.92 Greek and Roman
.93 Early Teutonic
.94 Brahman Buddhist
.95 Parsee
.96 Jew
.97 Mohammedan
.98
.99 **Other nonchristian religions**

923 Of sociology

923.1–923.9 may be subdivided for nationality, as in 930–999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

.1 **Chief rulers: kings, queens, emperors, presidents**
.2 **Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc.** For slaves, see 326.92
.3 **Political economy: bankers, capitalists, financiers**
.4 **Law: judiciary dep't, lawyers, judges**
.41 Criminals
.5 **Administration: army and navy, civil servis**
.6 **Associations and institutions** **Philanthropists, etc.**
.7 **Education: teachers, school offisers, educators**
.8 **Commerce and communication: railway officials, merchants, etc.**
.9 **Manners and customs: society, travelers, discovery**

924 Of philology
925 " science
926 " useful arts
927 " fine arts
928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.862. Professors known as specialists go with the subject taught rather than with teachers; e. g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810–899, clas historians with miscellaneous authors as 8; i.e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet. For general collectiv biografies of literary men 928.081–.087 may be divided like 808.1–.7; clas lives of historians in 928.088; for genealogists see note under 920.9

929 Genealogy and heraldry

.1 **Genealogies**

.2 Families

.3 Registers of births, baptisms, marriages, deths

.4 Names of persons and places

.5 Epitafs

.6 **Heraldry**

.7 **Peerage, precedence, titles of honor** **Royal houses**

.71 **Orders of knighthood**

.711 St John of Jerusalem

.712 Templars

.713 Teutonie knights

.714 Garter

.715 Golden Fleece

.716 Holy Ghost

.717

.718

.719

.72 **Great Britain and Ireland**

.7201 Peerage Royal houses

.7202 Baronetage

.7203 Knightage

.7204 Dignities, precedence

.7205 Landed gentry

.7206 Visitations Alfabeted by counties

.73 **Germany**

.74 **France**

.75 **Italy**

.76 **Spain**

.769 **Portugal**

.77 **Russia**

.78 **Scandinavia**

Further subdivided locally, if needed, like 943-948. Under any geografic division 01-06 may be used as shown above under 929.72

.79 **Other European countries**

Divided like 949; countries outside Europe ar put together in 929.7999 divided like 930–999

.8 **Coats of arms, crests**

.9 **Flags**

930 Ancient history –476 A.D

931 China Serica –AD420 (circa)

Later history is elast in 951. If preferd all works on history of China may be brought together under 951 (see note under 951.01). For note on dates and spelling see under 951

.01 **Earliest period** **–1122BC**

Mythologie and legendary history to circa 1500BC

.02 Hsia dynasty 2205–1766BC

.03 Shang or Yin dynasty 1766–1122BC

.04 **Chou dynasty** **1122–255BC**

Feudal age (800–771), Ch'un-Ch'iu or Age of Spring and Autumn (770–473), Chan-kuo or Age of the Contending states (473–221)

.05 **Chin (Tsin) dynasty** **255–206BC**

.06 **Han dynasty** **206BC–AD221**

(The Empire, 221BC–AD88) .062 Western Han 206BC–AD25

.065 Eastern Han AD25–221

.07 **The Three Kingdoms** **221–265**

.072 Wei 220–265 .074 Shu 221–265 .076 Wu 229–265

.08 **Chin (Tsin) dynasty** **265–420**

.082 Western Chin (Tsin) 265–317 .085 Eastern Chin (Tsin) 317–420

932 Egypt

933 Judea Jewish Palestine

934 India

935 Medo-Persia

.1 **Chaldea**

.2 **Assyria** **Nineveh**

.3 **Media**

.4 **Babylonia**

.5 **Persia**

.6 **Parthia**

.7 **New Persian or Sassanian**

.8 **Mesopotamia**

.9 **Susiana**

936 Races forming the new European nations Barbarians

To fall of Western empire, A. D. 476

.3 **Germans**

.31 Burgundians Bourguignons Vandals Alani

.311 Burgundians

.312 Bourguignons

.313 Vandals

.314 Alani

.32 Saxons and Angles

For history after 476 A. D. see 942 England

.321 Saxons

.322 Angles

936.33 Alemanni Heruli Suevi
.331 Alemanni
.332 Heruli
For history after 476 A. D. see 945 Italy
.333 Suevi
For history after 585 A. D. see 946 Spain.
.35 Lombards
For history after 572 A. D. see 945.01 Italy
.36 Goths
.361 East Goths Ostrogoths
For history after 493 A. D. see 945.01 Italy
.362 West Goths Visigoths
For history after 476 A. D. see 946 Spain
.4 **Kelts**
For history of Gaul see 944 France
.7 **Slavs**

937 Rome Italy

Period divisions

.01	Kings	753–509 B. C.
.02	Republic	509– 31 "
.03	Conquest of Italy	509–264 "
.04	Punic wars	264–146 "
.05	Civil strife	146– 31 "
.06	Empire	31 B. C.–476 A. D.
.07	Constitutional	31 " –284 "
	Augustus—Illyrian emperors	
.08	Absolute	284–476 "
.09	Division of empire	395–476 "
	Barbarian conquests and fall of Western empire	

Geografic divisions

.1 **Liguria**
.2 **Gallia Cisalpina**
.3 **Venetia Istria**
.4 **Umbria Picenum Sabini, etc.**
.5 **Etruria**
.6 **Latium, Rome**
.7 **Southern Italy: Campania, Samnium, Apulia, etc.**
.8 **Sicily, Syracuse**
.9 **Sardinia Corsica**

938 Greece

Period divisions

.01	Mythical age	–776 B. C.
.02	Growth of states	775–500 "
.03	Persian wars Union of Greece	500–479 "
.04	Athenian supremacy	479–431 "
.05	Peloponnesian war	431–404 "
.06	Spartan and Theban supremacy	404–362 "
.07	Macedonian supremacy	362–323 "
.08	Roman conquest of Greece	323–146 "
.09	Greek subjection	146 B C.–323 A. D.
	Byzantine empire is clast 949.5	

Geografic divisions of Greece

938.1 **Macedonia**
.2 **Thessaly Epirus**
.3 **Acarnania Ætolia Locris Doris Phocis Ithaca**
.4 **Boeotia Megaris Euboea**
.5 **Attica**
6 **Peloponnesus**
.7 **Corinthia Achaia**
.8 **Elis Arcadia Argolis**
.9 **Messenia Laconia Sparta**

939 Other countries

.1 **Grecian archipelago**
.11 Northern ilands: Thasos, Lemnos, etc. .12 Lesbos .13 Chios, etc. .14 Samos, etc. .15 Cyclades .16 Rhodes, etc. .17 Carpathos .18 Crete

.2 **Western Asia Minor**
.21 Mysia, Troas .22 Lydia .23 Ionia .24 Caria .25 Bithynia .26 Phrygia .27 Pisidia .28 Lycia .29 Pamphylia

.3 **Eastern Asia Minor**
.31 Paphlagonia .32 Galatia .33 Pontus .34 Cappadocia .35 Cilicia .36 Commagene .37 Cyprus

.4 **Syria**
.41 Upper Syria .42 Coele Syria .43 Palmyra .44 Phenicia, Tyre .45 Palestine: Hittites, Philistines, etc. .46 Edom, Moab, Bashan, etc. .47 Arabia .48 Arabia Petraea, Sinai

.5 **Northwestern Asia**
.51 Scythia .52 Sarmatia Asiatica .53 Colchis .54 Iberia .55 Armenia .56 Albania

.6 **South Central Asia**
.61 Sogdiana .62 Hyrcania .63 Margiana .64 Bactriana .65 Ariana

.7 **Minor African countries**
.71 Mauritania .72 Numidia .73 Africa Propria, Carthage .74 Syrtica Regio .75 Cyrenaica .76 Marmarica .77 Libya, Gaetulia .78 Ethiopia

.8 **Southeastern Europe**
.81 Sarmatia Europa .82 Dacia .83 Vindelicia .84 Rhaetia .85 Noricum .86 Pannonia .87 Illyria .88 Moesia .89 Thracia

Modern history

940 Europe

From fall of the Western empire (Rome) A. D. 476

.1 **Medieval Europe** 476–1453

For Byzantine empire see 949.5

.11 **Rise of new nations** 476– 800

.14 **Age of feudalism** 800–1100

See also 321.3 Feudalism (Political science)

Charlemagne 768–814

Norman conquests

.17 **Age of chivalry** 1100–1453

To fall of Eastern empire (Constantinople) 1453

.18 **Crusades** 1096–1270

See also church history, 270.4–.5

.181	1st	crusade	1096	(Peter the Hermit)
.182	2d	"	1147	(St Bernard)
.183	3d	"	1190	(Richard Coeur de Lion)
.184	4th	"	1202	(Baldwin of Flanders)
.185	5th	"	1212	(Children's crusade)
.186	6th	"	1217	(Capture of Jerusalem)
.187	7th	"	1228	
.188	8th	"	1248	(St Louis)
.189	9th	"	1270	"

.2 **Modern Europe** 1453–

.21 **Renaissance period** 1453–1517

Discoveries and inventions

.22 **Age of the reformation** 1517–1789

.23

.24 30 years war 1618–48

.25

.26

.27 **Napoleonic period** 1789–1815

.28 **19th century** 1815–1914

.29

.3 **World war** 1914–19

SUMMARY OF 940.3–.4

.31 Political history
.32 Diplomatic history
.33 Groups of countries: allies and neutrals
.34–.39 Individual countries
.4 Military history
.41 Land operations
.42–.43 Special campains and battles
.44 Air warfare
.45 Naval history
.46 Celebrations, commemorations
.47 Prisons, hospitals, welfare work
.48 Personal narrativs, secret servis, propaganda
.49 Illustrativ material

940.31 Political history

.311 Causes

Conditions and events mentiond below ar to be clast here only when considerd distinctly as causes of the war, otherwize under their own numbers

2 **Historical, political and diplomatic causes**

Militarism. Imperialism (See 321.03). Pan-Slavism (See 327.47). Pan-Germanism (See 327.43). Near East question, Congress of Berlin (See 341.1). Triple alliance, Dual alliance, Triple entente (See 341.2). Diplomatic crises: 1st Moroccan crisis 1905–6, annexation of Bosnia and Herzegovina 1909, 2d Moroccan crisis 1911. Balkan leag 1912. Treaties of Lausanne, 1912; London, 1913; Bukarest, 1913 (See 341.2 Treaties). Crisis of 1914: assassination of Archduke Francis Ferdinand; ensuing complications

3 **Economic causes**

Socialism (See 335). Commercial rivalry. Desire for colonial empires: Over-population in Europe, Food supply, Outlet for manufactures, Ambition for cultural expansion

.312 Efforts to preserv or restore peace

See also 940.32 Diplomatic history

Proposed: Hague mediation by Serbia, conference in London by Grey, submission to Hague tribunal by Russia, submission of problems to the great powers by Russia

2 **By year**

24 In 1914
25 " 1915
26 " 1916
27 " 1917
28 " 1918

8 **By classes of persons**

Divided like main classification; e. g efforts by clergy 940.31282

9 **By country**

Divided like 940–999

.314 Results: terms of peace (See note under 940.311)

1 **Treaties and conferences** See also 341.1–.2

Treaty of Versailles, 23 June 1919, between Allies and Germany; ratified by U S 18 Oct. 1921

12 Subsequent treaties and conferences

Defensiv alliances between France and England, and between France and U S
Treaty of St Germain, 17 Oct. 1919, with Austria
" " Neuilly, 27 Nov. 1919, with Bulgaria
Paris conference 24 Jan. 1921
Brussels, 24 Sep. 1921
Cannes conference 6 Jan. 1922
Washington disarmament conference 6 Feb. 1922
Genoa conference 10 Ap. 1922

2 **Treaty outcomes**

22 Reparations
24 Changes in boundaries
25 Establishment of new nations
26 " " mandates

3 **Leag of nations** See 341.1

940.3144 **Reconstruction**
May be divided like 940–999, but preferably clast with individual countries

8 **Effect on world conditions**
May be divided like main clasification, but results with relation to special topic ar preferably clast with that topic

9 **Effect on special countries**
May be divided like 940–999, but preferably clast with individual countries

.315 Relations of classes distinctly represented in main clasification
Subdivided like the clasification, uzing 9 for refugees, divided like 940–999 by country of origin. For classes not thus provided for see 940.316

2 **Clergy Church**
Subdivide .3152–28 like 280, but uze .315289 for sects in 289; e.g.
.315219 Greek catholic church
22 Roman " " Pope
2895 Christian scientists
Uze.31529 like 290; e.g.
.315296 Jews
297 Mohammedans Holy war

.316 Other special classes
1 **Noncombatants**
2 **Pacifists**
3 **Enemy simpathizers**

.318 Relations of special interests Aspects
Divided generally like the clasification, e.g. economic aspect 940.31833

.32 Diplomatic history
See also 940.31–.314 Political history

.322 Entente
Divided like 940–999

.324 Teuton allies, Central powers
Divided like 940–999

.325 Neutrals
Divided like 940–999

.33 Groups of countries: allies and neutrals
Collectivly; for individual countries see 940.34–.39

.332 Entente

.334 Teuton allies, Central powers

.335 Neutrals

.34–.39 Individual countries
Divided like 940–999
Under each country further subdivision may be made with the following numbers, if its part in this war is clast here insted of with the rest of its history:
01 Political history Causes
02 Diplomatic "
03 Local (states, counties, provinces, cities)
04 Military organization
Clas operations in 940.4
05 Aspects: economic and other
06 Celebrations
07 Prisons etc
08 Personal narrativs
09 Illustrativ

940.4 Military history

.401 Strategy
2 **Entente** Divided like 940–999
3 **Teuton allies, Central powers** " " "

.402 Recruitment Volunteers Drafts
Clas here general discussions only. When relating to special country clas under 940.34–.39

.403 American negroes American Indians
Clas here general discussions of use of such troops. For their history as military units see 940.41273

.405 Penal and malign mesures
Deportation, confiscation, censorship
6 **Frightfulness Atrocities**
As military expedient. For other relations see : Cruelty in Relativ index

.41 Land operations
For general works on land operations by special countries or in special localities. Clas accounts of special campains and battles in 940.42–.43. Divisions of 940.41 (except 940.411) may, if needed, be further subdivided like 940–999. For operations in special localities the most important geografic divisions ar broadly designated under 940.414–.416

.411 Special branches of servis
Under 940.412, which in most American libraries wil take most of the material of this kind, is given a book number skeme for the various classes of military units. 940.412–.413 ar uzually divided geograficly before book number is added, but special servis histories not limited to special countries or groups of Entente or Central powers may (unless, because of their broad scope, 355–358 is preferd) be clast in 940.411 and arranged by book numbers given under 940.412, e.g. History of cavalry engagements in World war 940.411 H

.412 Military organizations of Entente
Divided geograficly like 940–999. Under each local division arrange by book number skeme given below. C-X ar generally subarranged by number of army, corps, division or regiment, etc. When there ar more than 9 units in a group, 0 must be prefixt to numbers for 1st 9; otherwize 9th would shelv after 89th. When there ar more than 99 units in a group 00 must be prefixt to numbers for 1st 9, and 0 to numbers 10–99, and in view of difficulty which would often be involvd in determining whether there wer more than 99 it is recommended that this method be uzed except for C Armies and D Corps. Special designations must be provided for unnumberd and peculiarly numberd units. Material on units with distinctiv names but without numbers may be arranged alfabeticly by name of unit. General histories of any branch of servis of Entente or Central powers (i.e. not limited to special country) may be clast in 940.412 for Entente and 940.413 for Central powers, followd directly by book number for special servis, e.g. History of cavalry engagements of Entente forces in World war 940.412 H

BOOK NUMBER SKEME FOR 940.411-.413

A General

Administrativ servises, hedquarters, general staf, etc. Clas here general official publications, with unofficial on A9

A1 Reports of War department, Adjutant-general etc

A2 Lists of soldiers Rosters Losses

General; for individual regiments etc see C-Z below

A9 Unofficial publications

Including unofficial histories covering several branches of servis

B Training camps

Officers training corps, etc. Clas under country maintaining training camp, further arranging under B by geografic number for place where located. Type of camp may be indicated by inserting after B a lower case letter as follows: a Officers, b National guard, c National army, d Special; when further distinguishing mark is needed ad after local number lower case initial for place where located; e.g.

940.41273 B U S training camps
B44 " " " in France
B758 " " " " Georgia
Ba758 U S officers training camps in Georgia
Ba758o " " " camp at Ft Oglethorpe, Ga

For sake of uniformity it is recommended that local number be carried only to state (even when more fully developt in tables) further designations being by lower case initial

Following is a clast list of principal U S training camps:

940.41273 Ba Officers

Ba747	N Y:	Madison barracks, Ft Niagara, Plattsburg barracks
755	Va:	Ft Meyer
758	Ga:	" McPherson, Ft Oglethorpe
764	Tex:	Leon Springs
767	Ark:	Ft Logan H. Roots
772	Ind:	" Benjamin Harrison
773	Ill:	" Sheridan
776	Minn:	" Snelling
781	Kan:	" Riley
794	Cal:	Presidio of San Francisco

940.41273 Bb National guard

Bb747	N Y:	Camp	Mills, Mineola, L I
756	N C:	"	Greene, Charlotte
757	S C:	"	Sevier, Greenville; Camp Wadsworth, Spartanburg
758	Ga:	"	Hancock, Augusta; Camp Wheeler, Macon
761	Ala:	"	McClellan, Anniston; Camp Sheridan, Montgomery
762	Miss:	"	Shelby, Hattiesburg
763	La:	"	Beauregard, Alexandria
764	Tex:	"	Bowie, Ft Worth; Camp Logan, Houston; Camp McArthur, Waco
766	Okla:	"	Doniphan, Ft Sill
789	N Mex:	"	Cody, Deming
794	Cal:	"	Fremont, Palo Alto; Camp Kearny, Linda Vista

Bc National army

Bc744	Mass:	Camp	Devons, Ayer
747	N Y:	"	Upton, Yaphank, L I
749	N J:	"	Dix, Wrightstown
752	Md:	"	Meade, Annapolis Junction
755	Va:	"	Lee, Petersburg
757	S C:	"	Jackson, Columbia
758	Ga:	"	Gordon, Atlanta
764	Tex:	"	Travis, Ft Sam Houston, San Antonio
767	Ark:	"	Pike, Little Rock
769	Ky:	"	Taylor, Louisville
771	Ohio:	"	Sherman, Chillicothe
773	Ill:	"	Grant, Rockford
774	Mich:	"	Custer, Battle Creek
777	Ia:	"	Dodge, Des Moines
781	Kan:	"	Funston, Ft Riley
797	Wash:	"	Lewis, American Lake, Tacoma

Bd Special

Bd755	Va:	Camp	Abraham Eustis, Lee Hall; Camp Humphreys, Accotink
758	Ga:	"	Forrest and Camp Greenleaf, Ft Oglethorpe
759	Fla:	"	Johnston, Jacksonville
769	Ky:	"	Knox, Stithton

If it is desired that kind of servis for which these special camps traind be shown in book number this may be done by inserting after Bd a lower case letter corresponding to capital for that special servis, in series G-Z below; e.g. 940.41273 Bdr, U S training camps for engineers

C Armies

Some armies had not only numbers but also distinctiv names; e.g. U S 3d army same as Army of occupation

D Corps

E Divisions

For many divisions having distinctiv names numbers ar as follows:

U S: 3 Marne, 4 Ivy, 5 Red, Diamond or Meuse, 6 Star or Sight Seeing, 7 Hour Glass, 8 Pathfinder, 11 Lafayette, 12 Plymouth, 14 Wolverine, 17 Thunderbolt, 18 Cactus, 19 Twilight, 26 Yankee or New England, 27 Empire or New York, 28 Keystone, Iron or Pennsylvania, 29 Blue and Gray, 30 Old Hickory, 31 Dixie, 32 Iron Jaw, Red Arrow or Les Terribles, 33 Prairie or Illinois, 34 Sandstorm, 35 Santa Fe, 36 Panther or Lone Star, 37 Buckeye, 38 Cyclone, 39 Bull's-eye, 40 Sunshine, 41 Sunset, 42 Rainbow, 76 Liberty Bell, 77 Metropolitan or New York's Own, 78 Lightning, 79 Liberty or Lorraine Cross, 80 Blue Ridge, 81 Wildcat (also name of 321st regiment of infantry; see G), 82 All American, 83 Ohio, 84 Lincoln or Rail Splitters, 85 Custer, 86 Black Hawk, 87 Acorn, 88 Cloverleaf or Hun Husker, 89 Middle West, Sunflower, Wood's Own or Wood's Orphans, 90 Alamo, 91 Wild West, 92 Buffalo or The Buffaloes (colord), 93 Negroes or Bloody Hand (colord)

Gt Brit: 9 Scottish, 10 Irish, 12 Eastern, 20 Light, 37 Golden Horseshoe, 42 East Lancashire, 46 North Midland, 50 Northumbrian, 51 Highland, 52 Lowland, 53 Welsh, 55 West Lancashire, 58 London, 62 West Riding, 63 Royal naval (see also N Marine corps), 74 Yeomanry (see also H Cavalry). Many British units wer constituted on territorial bases (see F Colonials, territorials etc)

F Colonials, territorials etc

To be uzed for clasing such forces under mother country. Divided geograficly like 940-999, and under each local division arranged by book number skeme here given, e.g. 940.41242 F71G11 for 11th regiment of Canadian infantry as part of British colonial forces. If preferd, colonials may be clast directly under their respectiv geografic numbers, disregarding relation to mother country, e.g. 940.41271 G11 for 11th regiment of Canadian infantry

Gt Brit: Anzacs (Australia-New Zealand army corps), West Riding territorials (constituting 49th and 62d divisions of British army; see E), etc

France: Moroccan division (Division marocaine) etc

G Infantry

Pioneer regiments, hedquarters troops, guards, zouaves etc. For some regiments etc with distinctiv names numbers ar as follows:

U S: 38 Rock of the Marne, 65 Puerto Rico regiment, 165 Shamrock battalion, 167 Alabama's Own, 313 Baltimore's Own, 321 Wildcats (also name of 81st division; see E); Lost battalion, K company of 307th regiment and 6 companies of 308th (clas with 308th)

Gt Brit: The Buffs, 10th battalion of yeomanry (constituted by combining Royal E. Kent regiment with Royal W. Kent (Queen's Own) regiment; see note on yeomanry under H); Prince of Wales' Own, 10th battalion of infantry (W. Yorkshire regiment); Alexandra, Princess of Wales', Own, 7th battalion of infantry (Yorkshire regiment); U P S (University and Public Schools brigade), 98th brigade of Royal fusiliers; Black Watch (Royal Highlanders), 42d regiment (Royal Highlanders of Canada, mostly from Montreal, wer an allied regiment); Gordon Highlanders formd part of 51st (Highland) division (see E). Guards regiments wer unnumberd, e.g. Royal guards, Grenadier guards, Irish guards, Scots guards, Welsh guards. Many units wer designated geograficly, e.g. London regiment, Northumberland fusiliers, Argyll and Sutherland Highlanders (Princess Louise's), Royal Scots (Royal regiment), Nottinghamshire and Derbyshire regiment (Sherwood Foresters), South Wales Borderers, etc

Canada: Princess Patricia's Canadian light infantry ('Princess Patricia's', 'Princess Pats', 'P P's', 'Pip-Pips', 'P P C L I') not numberd; Red Watch, 48th Highlanders; Prince of Wales' Leinster regiment (Royal Canadians)

Newfoundland: Blue Puttees (The 1st 500) 1st (Newfoundland) regiment

France: Foren legion (Légion étrangère)

H Cavalry

Gt Brit: Hussars, dragoons etc. Yeomanry ar normally volunteer territorial cavalry, but during World war many units wer reconstituted as infantry (see G)

J Light artillery Field artillery

For some units having distinctiv names numbers ar as follows:

U S: Fighting battery C, same as Battery C of 102d regiment; Miracle battery, Battery F of 102d regiment; Orphan battery, Battery E of 128th regiment. When distinction beyond regiment number is needed a capital letter designating special battery may be uzed, e.g. Battery C of 102d regiment 940.41273 J102C; for a single history of a regiment as a whole the book number may end with regiment number, but if there ar 2 or more such histories these may, to bring them before histories of separate batteries, be groupt under lower case 'a' followd by lower case initial of author, e.g. History of 102d regiment by Carter 940.41273 J102ae

Gt Brit: Honourable artillery company of London, or London gunners, 309th siege battery

K Hevy artillery Coast artillery
L Machine gun regiments or battalions
M Chasseurs
Belgium: Chasseurs à pied
France: " " " (Blue devils, Diables bleus), Chasseurs alpins, Chasseurs cyclistes
Italy: Bersaglieri
N Marine corps
For land operations only. For naval operations see 940.45
Gt Brit: Royal marine forces; Royal naval division (see also E, Gt Brit, 63d division)
P Gas regiments
Chemic warfare servis
Q Tank corps
R Engineers
Serchlight engineers, camouflage section, railroad section, etc
U S: Trenton's Own, 104th regiment
S Signal corps
Field signal battalion, telegraf battalion, etc. For air servis see 940.441
T Military police
France: Gendarmerie
Italy: Carbinieri
U Reservs
V Transport servis
Vm Motor transport corps Repair units
Vo Ocean transport Embarkation servis
Clas embarkation camps as under B, e.g.

940.41273	Vo747	N Y:	Camp Mills, Mineola, L I
	749	N J:	" Merritt, Dumont
	755	Va:	" Hill and Camp Stuart, Newport News

Vr Railroad transport
W Supply servis
Quartermaster's department, Ordance department, motor supply trains, etc
X Ammunition trains
Z Other
For medical corps, sanitary corps, ambulance corps see 940.475; air servis, 940.449; navy, 940.459. Above book number skeme may, so far as applicable, be uzed for arranging material on these servises, e.g.

940.44973	B	U S aviation training camps	
	B764	Tex:	Camp Kelley, San Antonio
	773	Ill:	Chanute field, Rantoul
	794	Cal:	Rockwell field, San Diego

940.413 Military organizations of Teuton forces or Central powers
Divided geograficly and by book number like 940.412. Bavarian troops ar numberd separately from other German troops, i.e. German 940.41343, Bavarian 940.413433
Germany: Uhlans, H; Jägers, Alpenkorps, M; Reserv-korps, Ersatz regiment, Landsturm, Landwehr, U

940.414 Europe
3 **German fronts**
4 **French front** Including general West front
5 **Italian** "
7 **Russian** " Including general East front
.415 Asia
.416 Africa
.42.–43 Special campains and battles
.421 Campain of 1914
.4211 **Belgium Aug. 2–11**
Aug. 2 Germans invade Luxemburg
2–7 " besiege and take Liége
4–5 Belgians defend Visé
.4212 **Belgium Aug. 12–Sep. 27**
Aug. 12 Battle of Haelen
15 Engagement at Dinant
17 Germans enter Tirlemont
19 " " Louvain
20 " occupy Brussels
21 " " Tamines; attack Namur
22–29 Battle of Charleroi
Aug. 22 Germans take Charleroi
23 Battle of Mons Belgians evacuate Namur
Sep. 3 Germans occupy Hirson
27 " " Malines
.4213 **Belgium Sep. 28–Dec.**
Sep. 28–Oct. 9 Germans besiege and take Antwerp
Oct. 10–18 British in Lys valley
11 Germans occupy Ghent
11–Nov. 20 Battles of Flanders
Oct. 11–Nov. 17 1st battle of Ypres, or Ypres-Armentières
Operations round Menin, Gheluvelt and Le Gheir
Oct. 14 Allies occupy Ypres and Bruges
15 Allies occupy Ostend
Nov. 1 Germans take Wytschaete and Messines
11 Germans take Dixmude

Campain of 1914 *continued*

940.4213 **Belgium Sep. 28–Dec.** *continued*
Oct. 16–31 Battle of Yser river (Nieuport; Ramscappelle)
Dec. 28 French occupy St Georges, near Nieuport

.4214 **Northern France Aug. 10–29**
Aug. 10–29 Battle of the Ardennes
Aug. 10 French and German troops clash round Longwy, Spincourt, etc.
25–26 Battles of Landrecies, Maroilles and Le Cateau
26 Germans take Longwy
26–28 Battle of the Meuse
28 Battles of Signy-l'Abbaye
29 Battle of Guise

.4215 **Northern France Aug. 30–Sep. 9**
Aug. 30 Germans take Amiens, Montmédy, Laon and La Fère
Sep. 1 Germans in Compiègne
1–9 Fighting on the Ourcq
2–5 Germans advance to gates of Paris
3 " occupy fortified position of Condé
4 " " Reims

.4216 **Northern France Sep. 6–17**
Sep. 6–12 Battle of the Marne
Sep. 7 Germans begin retreat from the Marne; take Maubeuge
9 Foch's decisiv thrust at Les Marais de St Gond Battle of La Fère Champenoise
12 German retreat halted on the Aisne
12–17 Battle of the Aisne

.4217 **Northern France Sep. 13–Dec.**
Sep 13–27 Battle of Soissons
Sep. 18 Germans bombard Reims
30–Oct. 18
Battles in Artois
Sep 30–Oct. 8 1st battle of Arras
Oct. 3–12 Operations in Lys valley
3–13 Germans take Tournai, Douai and Lille
16 Allies occupy Armentières
Dec. 7 French take Vermelles

.4218 **Eastern France**
Aug. 22 Battle of Ste Geneviève
24 " " the Trouée de Charmes
29–Sep. 9 " " Nancy, or Grand Couronné
Sep. 21 Germans occupy Les Eparges
23 " take Varennes-en-Argonne
25 " " St Mihiel; storm 1st outer Verdun fort, Camp des Romains
Dec. Le Bois-le-Prêtre Fighting round Belfort, Verdun and St Mihiel

Campain of 1914 *continued*

940.4219 **Alsace-Lorraine**
Aug. 7 Entry of French troops French take Altkirch and Mülhausen
8 French and German troops clash in the Vosges
9 French evacuate Mülhausen
18 " take Saarburg and Chateau-Salins
19 2d French entry into Mülhausen
20 Battle of Metz, or Metz-Saarburg
22 Engagements at Réméréville
25–Sep. 12 Germans conquer Lorraine
Aug. 25 French driven from Lorraine; evacuate Mülhausen
27 Alsace cleard of French troops
29 Germans take Manonviller
Sep. 11 French evacuate St Dié
Dec. 29 French begin new offensiv against Alsace

.4221 **East Prussia Aug.**
Aug. 1 Russians advance to Johannisburg
19–20 Battle of Gumbinnen
24 Russians occupy Insterburg and Allenstein
26–31 Battle of Tannenberg (or Osterode)
Aug. 26–28 Russians defeated near Hohenstein
27 Battle of Usdau

.4222 **East Prussia Sep.-Dec.**
Sep. 7–10 Battle of Masurian lakes
11 Russians defeated at Lyck
13 " " in battle of Allenstein
Nov. 12 " occupy Johannisburg
14 Hevy fighting between Soldau and Statlupoenen

.4223 **Poland July 31-Nov. 5**
July 31 Austrians occupy Lublin
Aug. 1 Russians advance to Biala
4–8 Destruction of Kalisz
23 Austrian victory over Russians at Krasnik
Sep. 9–Nov. 5 Battles of the Vistula-San
Sep. 10–Nov. 5 Battles of Warsaw and Ivangorod
Oct. 13–Nov. 2 Battle of Chyrow
27 Russians reoccupy Lodz and Radom
31–Nov. 2 Battle of the Opatowka
Sep. 26–Oct. 2 Battle of Augustowo

Campain of 1914 *continued*

940.4224 **Poland Nov. 6–Dec.**
Nov. 12 Russians defeated at Wloclawek
17–Dec. 15 Battle of Lodz-Cracow
Nov. 17–Dec. 1 1st battle of Lodz
Nov. 24 Austrians take Pilica
Dec. 1–15 2d battle of Lodz
For battle of Limanova-Lapanov see 940.4225, Dec. 3–12
Dec. 4–12 Germans take Czentochowa, Lodz and Przasnysz
18 Germans take Lowicz
20 Severe fighting between Germans and Russians on line of Bzura river Germans take Skierniewice
27 Germans occupy Mlawa

.4225 **Galicia**
Aug. 25 Russians invade Galicia
26–27 Battle of Zloczów
27–Sep. 3 Russians take Tarnopol and Halicz
29–30 Battle of Przemyslany
Sep. 1 " " Lemberg
3 Russians occupy Lemberg
12 Battle of Grodek-Rawa-Ruska
18–Oct. 9 1st siege of Przemysl
22 Russians take Jaroslav
27 " " Czernowitz
Nov. 6–Mar. 2 2d siege of Przemysl
For battle of Cracow see 940, 4224, Nov. 17-Dec. 15 Battle of Lodz-Cracow
Dec. 3–12 Battle of Limanova-Lapanov
21–25 " " Jaslo

.4226 **Russia in Europe (excluding Poland)**
Sep. 7–10 Russians defeated at Vilna
Nov. 8 Turks defeat Russians in the Caucasus
Dec. 1 " advance on Kars and Ardahan

.4227 **Serbia**
July 29 Austrians bombard Belgrade
Aug. 15 " enter Serbia
16–19 Battle of the Yadar (Jadar)
17 Serbs victorius in battle of Shabatz
Sep. 1–13 " invade Syrmia, Hungary
Sep. 10 Serbs take Semlin
Oct. 31–Dec. 15 Kolubara campain
Nov. 15 Austrians take Valjevo
Dec. 2 " occupy Belgrade Battle of the Ridges
15 Austrians evacuate Belgrade

.4228 **Albania**
Dec. 25 Italian marines occupy Avlona

.4231 **Turkey in Asia**
Nov. 22 British from India occupy Basra

.4233 **East Asia**
Sep. 28 Japanese-British forces attack works of Tsingtau
Nov. 7 Japanese take Tsingtau

Campain of 1914 *continued*

940.4234 **Egypt**
Oct. 31 Bedouin tribes invade Egypt
Nov. 12 Turks take El Arish
20 " and British clash 30 miles from Port Said

.4235 **North Central Africa**
Aug. 7 British occupy Lorne, in Togoland
26 " and French conquer Togoland

.4236 **British East Africa German East Africa**
Aug. 15 Germans take Taveta
Sep. 12 " " Karungu
Nov. 2 British invade German East Africa
4 " defeated at Tanga

.4237 **South Central Africa**
Oct. 1 Allies invade Kamerun
Nov. 20 Germans " Uganda

.4238 **South Africa**
Aug. 20 Beginning of German failure in Nyasaland
Oct. 15 South Africa rebels defeated at Ratedrai
27 South African sedition spreds; Gen. De Wet and Gen. Beyers in revolt
Nov. 4 British reverse in South Africa
Dec. 1 Gen. De Wet captured

.4239 **German Pacific ilands**
Sep. 11 Australian expedition siezes German hedquarters in German New Guinea
14 British occupy Herbertschoeche in Bismarck arkipelago
30 New Zealanders occupy German Samoa

.424 Campain of 1915

.4241 **Belgium**
Ap. 17 British take Hill 60
22–27 2d battle of Ypres
Ap. 22 German success with gas
June 3 Battle at Hooge
Aug. 9 British success at Novge, near Ypres

.4242 **Northern France Jan.-Feb.**
Jan. 8 Battle of Soissons begins
14 Germans capture hights of Vregny

.4243 **Northern France Mar.-Dec.**
Mar.-Oct. Battles in Artois
Mar. 10–13 Battle of Neuve Chapelle
Mar. 10 British take Neuve Chapelle
May 9–20 Battles of Aubers ridge and Festubert
May 9 Attack on Rue du bois
16 Battle of Festubert begins
12 Battle of Cambrai-St Quentin French take Carency
June 6 Allies take most of the 'Labyrinth', north of Aisne
9 Allies take Neuville-St Vaast, near Arras
Sep. 25 French take Souchez
25–28 Battle of Loos

Campain of 1915 *continued*

940.4244 **Eastern France Jan.-Sep. 8**
Jan. 24–Ap. 30 1st German assault on Verdun
1st phase: Douaumont and Vaux, and forts west of the Meuse
Ap. 7 Germans surrender Les Eparges
Feb. 16–Mar. 11 French offensiv in Champagne
July 14 Germans advance in the Argonne
Sep. 8 " take trenches in "

.4245 **Eastern France Sep. 9–Dec.**
Sep. 24–Dec. 15 Operations in Champagne
Sep. 29–Oct. 1 French progress in Champagne
Oct. 6 " take Tahure and Butte de Tahure (Tahure hill)
24 French take the Courtine, south of Tahure
30 Germans retake Butte de Tahure

.4246 **Alsace-Lorraine**
Jan. 3 French take Steinbach
9 " lose "
17–18 " advance close to Metz
June 22–Dec. 24 Activity in the Vosges

.4248 **Austro-Italian front**
May 26 Italians invade Tyrol and Carinthia
27 " take Ala; cros Isonzo near Gorizia (Goeritz)
28 Italians take Grado
June 4 " " Monte Nero, Upper Isonzo
9 Italians attack Gorizia, and take Monfalcone and Plava
11 Italians take Gradisca on the Isonzo
12 " reach Rovereto and Mori, in the Trentino
July 7 Italians attack Gorizia
17 " take Venerdolol and Brizce passes
Oct. 14 Italians take Pregasina, on Trentino frontier
18–Nov. 15 Battle of Gorizia

.4251 **East Prussia**
Feb. 7–21 Masurian winter battle
Feb. 15–18 Battle of Augustowo
20 Fighting on Niemen (or Memel) river
Mar. 17 Russians occupy Memel
21 Germans retake "

Campain of 1915 *continued*

940.4252 **Poland**
Jan. 3 Germans take Bolimov
18 Russians reoccupy Plotzk (Plock)
Feb.-July Struggle for Przasnysz
Feb. 1 Germans retake Borjimow (Borzymow)
2–3 Russians advance on Warsaw
June 29 Germans take Tomaszow
July 1–Oct. 21 Southern drive
July 1–14 2d battle of Krasnik
July 2 Austrians take Krasnik
15–24 Battle of Sokal
16–19 " " Krasnystaw
30 Germans take Kholm (Cholm) and Lublin
Aug. 5–8 Battle at Lubartow
12 Germans take Siedlce
Oct. 21 Austro-Germans defeated at Novo Alexinetz
July 15–Aug. 22 Northern drive Battles of the Narew
July 15–17 Battle of Bogate
22–25 Battles of Rozhan and Kamionka
23–25 Battle of Pultusk
26–Aug. 3 Battle of Orz (or Goworowo)
Aug. 5–22 Germans take Warsaw, Ivangorod (Iwangród), Novo Georgiewsk and Osowiec

.4253 **Galicia**
Jan.–May 2 Battles of the Carpathians
Jan. 4 Russians occupy Uzsok pas
27 Austrians take " "
Feb. 1 Battle begins at Bolimov
3 Austrians evacuate Tarnow
24 Russians driven from Bukowina
Mar. 3 Austrians take Stanislau
22 Przemysl surrenderd to Russians
23 Russians take Lupkow pas
31 " penetrate Dukla pas
Ap. 4 Russians take Varecze pas and Smolnik, near Lupkow pas
18 Russians evacuate Tarnow
26 " defeated in Uzsok pas
May 2 Austro-Germans take Dukla pas

Campain of 1915 *continued*

940.4253 **Galicia** *continued*

May 2–June 16 Battles of the Dunajec-San
May 6 Austro-Germans retake Tarnow
6–11 Battles at Sanok and Rzeszów
16 Russians retire to the San
Germans take Jaroslav
24–31 Battle on the Stryj
24–June 6 " of Przemysl
June 3 Teuton forces retake Przemysl
June 12–15 Battles of Mosciska and Lubaczów
June 10 Germans retreat across the Dniester
16–19 Battle of Grodek-Magierow
20 Austro-Germans take Rawa-Ruska
20–22 Battle of Lemberg (or Lvov)
June 20 Austro-Germans take Zólkiew
22 Austrians enter Lemberg
26–30 Battle on the Gnila Lipa
28 Teuton forces retake Halicz
Aug. 28 Germans take Lipsk
Sep. 1 Teuton forces take Brody
7–8 Russians victorius on Sereth river
Dec. 1 Russians retake Czernowitz

.4254 **Russia in Europe (excluding Poland)**

Jan. 1–Mar. 25 Turks meet reverses in the Caucasus
Jan. 3 Russians defeat Turks at Ardahan
4 " victorius at Sarikamysh
15 " take Kirlibaba pas
Mar. 25 Turks defeated at Aradabil
May 8 Germans occupy Libau
July 20–Aug. 17 " take Windau, Mitau and Kovno
Aug. 23–26 Teuton forces take Kovel, Brest-Litovsk, Ossowitz and Olita fortress
31 Austrians take Lutz
Sep. Austro-German offensiv against Rovno
2–18 Germans take Grodno, Dubno, Pinsk and Vilna
24 Russians retake Lutz
28 Germans " "
Oct. 10–24 Operations about the Dvina
Oct. 10 Germans expeld from Garbounovka, near Dvinsk
16 Russians repulst at Gross Eckau
18–24 Germans take Borkowitz and Dahlen
Nov. 14 Russians driven across Styr river

Campain of 1915 *continued*

940.4255 **Rumania**

Oct. 23 Bulgars cros Timok river and occupy Prahova

.4256 **Serbia**

Oct. 6–Dec. 5 Serbia invaded by Austro-Germans and Bulgars
Oct. 8 Serbs evacuate Belgrade
9–14 Austro-Germans take Belgrade, Semendria (Semendrevo) and Pozarevatz
15 Fighting between French and Bulgars at Valandovi
17 " take Egri-Palanka
18 Austro-Germans take Obrenovatz Allies take Strumiza (Strumnitza)
19–22 Bulgars take Vrania (Vranja), Veles and Uskub
23–24 Battle of Kumanovo (Komanova)
25 Austrians take Kladovo
26 Teuton forces take Valjevo
29 Bulgars take Pirot
31 Germans take Kragujevatz
Nov. 3 " " Uzice (Uzhitze, Uzitsha)
5 Bulgars take Nish Germans take Kralievo
7 Germans advance at Kruchevatz (Krusevac)
17 Serbs retire from Prilep and Babuna hights
20 Fall of Novibazar (Novipazar, or Yenibazar)
23 Teuto-Bulgars take Mitrovitsa and Pristina
30 Bulgars take Prisrend
Dec. 5 Austro-Germans and Bulgars occupy Monastir
Oct. 5–Dec. 10 Salonika (Greece) campain operations
Tho Salonika is in Greece, these operations ar included here, as being designd for relief of Serbia
Oct. 5 Allies land in Salonika
6 French advance into Serbia
Dec. 5 Bulgars defeat French on the Vardar
10 Allies, retreating from Serbia, fall back on base at Salonika

.4257 **Montenegro**

Dec. 1 Teuton forces invade Montenegro
6 Germans take Ipek

.4258 **Albania**

Dec. 15 Italians land in Albania
21 " occupy Durazzo

Campain of 1915 *continued*

940.4259 **Turkey in Europe**

Feb. 1915–Jan. 1916 Gallipoli expedition

Feb.-Mar. Dardanelles operations

See also 940.455 Naval history of World war

Ap. 25 Allies land in Gallipoli

May 20 " take Krithia hights

Aug. Operations on Anafarta hights

Aug. 7 New Allied army lands in Gallipoli

Dec. 8 British begin evacuating Gallipoli

.4261 **Turkey in Asia**

Ap. 14 Turks defeated near Basra

June 3 British take Amara

July 25 " " Nasiryeh

Sep. 28 " " Kut-el-Amara

Nov. 22 " " Ctesiphon

30 " Mesopotamian expedition defeated south of Bagdad

Dec. 3 Turks besiege British at Kut-el-Amara

11 Turco-British battle " "

.4264 **Persia**

Jan. 30 Russians take Tabriz from Turks

Dec. 17 " occupy Hamadan

26 " " Kashan

.4266 **Egypt**

Jan. 24 Turks defeated at El Kantara

.4268 **Colonial operations**

Jan. 14 Union forces occupy Swakopmund, German Southwest Africa

Feb. 24 British South African forces occupy Garub, German Southwest Africa

Ap. 20 Union forces take Keetmanshoop, German Southwest Africa

May 12 Gen. Botha occupies Windhuk, German Southwest Africa

June 28 British occupy Ngaundere, Kamerun

July 15 Conquest of German Southwest Africa completed

.427 Campain of 1916

.4271 **Belgium**

Feb. 8–July 18 Trench fighting in Ypres salient

Ap. British take St Eloi

.4272 **Northern France**

July-Nov. Battle of the Somme

July 2–28 British take Fricourt, Pozières and Delville wood

Sep. 3–18 French take Guillemont, Vermondovillers and Deniécourt

26 Allies take Combles and Thiépval

Nov. 7–12 French take Chaulnes and Saillisel

12–18 British drive on the Ancre

Nov. 14–18 British take Beaucourt and Grandcourt

Campain of 1916 *continued*

940.4273 **Eastern France**

Feb. 21-Dec. Battles at Verdun

Feb. 21 Great German attack opens

25 Germans take Douaumont fort

28 French check German advance

Mar. Germans take Forges, Fresnes, Haucourt hill and Malancourt

Ap. 2–3 Germans take and lose Caillettes wood

5 " " Haucourt

May 6 " launch new offensiv

22–24 French retake and lose Douaumont fort

24–June 25 Germans retake Cumières, Vaux fort, Thiaumont and Fleury

June 30 French retake Thiaumont

July 3 Germans " "

Aug. 5–9 Thiaumont contested

18 French retake Fleury

Oct. 24 " " Douaumont fort

Nov. 2 " " Vaux fort

.4274 **Austro-Italian front**

Feb.–June Tyrol

Feb. 21 Italians take Collo, near Trent

Ap. 17 Italians take Col di Lana

May 16–June 20 Successful Austrian offensiv from the Trentino

Mar.–Nov. Isonzo and Carso

Mar. 14 Italians attack on entire Isonzo front

Aug. 1 Italian offensiv against Gorizia (Goeritz)

6 Italians take Monte Sabotino and Monte San Michele

7 Italians gain the Isonzo

9 " take Gorizia

10 " drive Austrians across the Vallone

Sep.–Nov. Italians assume offensiv on the Carso

.4275 **Galicia**

Jan. 1 Russians invade Bukowina

Feb. 9 " take Uscieczko

June 17–23 " " Czernowitz and Bukowina

28–July Battle of Kolomea

July 1 Russians take Kolomea

June 30–July 2 Russians take and lose Tlumacz (Tlumatch)

July 16–Aug. 7 Russians take Sviniusky, Brody and Tlumacz

Aug. 10 Austrians evacuate Stanislau

14–15 Russians take Tustobaby and Jablonitza (Jablonica) pas

Campain of 1916 *continued*

940.4276 **Transylvania**
Sep. 7 Rumanians take Orsova
28–30 Germans defeat Rumanians at Hermannstadt
29 Teuton forces defeat Rumanians at Siba
Oct. 5 Rumanians defeated near Fogaras
Battle in Geisterwald mts
7–9 " of Kronstadt (or Brasov, or Brasso)
Nov. 25 Rumanians lose Orsova

.4277 **Russia in Europe**
Mar. 18–27 Battle of Lake Narocz (Naroch)
June–Aug. Battles around Luck (Lutsk)
June 6–9 Russians take Luck and Dubno
June 13–14 1st battle of Baranovichi (Baranowicze)
July 2–14 2d " " "
20 Russians take Beresteczko
25 3d battle of Baranovichi

.4281 **Rumania**
Sep. 1 Germans, Bulgars and Turks invade Dobruja
6 Germans and Bulgars take fortresses of Turtukai and Tutrakan
9 Rumanians evacuate Silistria
10 Germans and Bulgars take fortress of Silistria
Oct. 22–23 Germans take Constanza (Kustendji)
24–30 Battle of Targul-Jiu
25 Teuton forces occupy Cernavoda
Nov. 20 Austro-Germans take Craiova (Crajova)
23 " " conquer Little Wallachia
24 Rumanians lose Turnu-Severin
Dec. 3 Battle of Arges
6 Germans take Bucharest
8 Rumanians trapt in Prahova valley

.4282 **Serbia**
Aug. 10 Allies bombard and take Doiran
Nov. 19 " enter Monastir

.4283 **Bulgaria**
Oct. 2 Rumanians routed

.4284 **Montenegro**
Jan. 10 Austrians take stronghold on Mt Lovchen (Lovtchen)
13 Austrians take Cettinje

.4285 **Greece**
Jan. 11 French land at Corfu
Aug. 17 Teuton forces take Terina from Serbs
Bulgars take Florina
25 " " Startila and Kavala (Kavalla, Kavallo) forts
Sep. 14 Bulgars take Kavala Serbs take Malkenidse from Bulgars
18 Allies retake Florina
Dec. 1 " take possession of Piraeus

Campain of 1916 *continued*

.940.4288 **Albania**
Jan. 23 Austro-Hungarians occupy Scutari
25 Austrians take San Giovanni di Medua
Feb. 27 " " Durazzo

.4289 **Turkey in Europe**
Jan. 9 Allies evacuate Gallipoli

.4291 **Turkey in Asia Asia Minor**
Feb. 13 Turks defeat British near Konia (Koniah, Konieh)
Ap. 18 Russians take Trebizond

.4292 **Turkey in Asia Armenia**
Jan. 11–Aug. 24 Russian campain in Armenia
Feb. 16–Mar. 16 Russians take Erzerum, Mush, Bitlis and Mamakhatun
Mar. 31 Russians evacuate Mamakhatun
July 12 Russians retake Mamakhatun
25 Russians take Erzingan (Erzhingian, Erzinjan)
Aug. 8 Russians evacuate Bitlis and Mush
24 Russians retake Mush

.4293 **Turkey in Asia Mesopotamia**
Jan. 8–Dec. 13 British campain in Mesopotamia
Jan. 8 British defeat Turks at El Amara
Ap. 5 " take Felahie
9 " repulst near Felahie
29 " surrender Kut-el-Amara
Nov. 31 " take Basra

.4294 **Persia**
Feb. 27 Russians take Kermanshah
Mar. 19 " enter Ispahan
Aug. 11 Turks drive Russians from Hamadan

.4296 **Egypt**
Ap. 23 Turks take Quatia
Aug. 3 " defeated at Romani, on Suez canal
Dec. 21 British occupy El Arish, Sinai peninsula
23 " attack Turks at Magdhaba

.4298 **Colonial operations**
Feb. 18 Allies conquer Kamerun
Sep. 4 British take Dar-es-Salaam, German East Africa
11 Belgians take Tabora, German East Africa

.431 Campain of 1917

.4311 **Belgium Jan.-June 7**
June 7 Battle of Messines Explosion of mine
British take Messines-Wytschaete salient

.4312 **Belgium June 8-July 30**
June-Dec. 2d battle of Flanders

Campain of 1917 *continued*

940.4313 **Belgium July 31-Dec.**
July 31–Nov. 6 3d battle of Ypres
July 31 Allies advance from Ypres
Aug. 10 " take Bixschoote
16 British " Langemarck
Sep. 25 " resume drive on Ypres-Menin road
26 British take Zonnebeke
Oct. 4–10 Allies advance on Passchendaele ridge
Nov. 6 Canadians take Passchendaele

.4314 **Northern France Jan.-Mar.**
Feb. 7 British take Grandcourt
24 Germans retreat from Ancre river
28 Allies take Puisieux-au-Mont and Tilloy British take Gommecourt
Mar. 17 British attack along Siegfried or Hindenburg line Allies retake Bapaume French take Roye British take Chaulnes
18 French take Noyon British take Péronne and Nesle

.4315 **Northern France April-May 8**
Ap. 9–May 8 2d battle of Arras
Ap. 9 Canadians take Vimy ridge
11 British " Monchy
28 Canadians " Arleux-en-Gohelle
May 3 Allies take Bullecourt British take Fresnoy
8 Germans retake Fresnoy

.4316 **Northern France Ap. 16-Nov. 2**
Ap. 16–May 6 2d battle of the Aisne
Ap. 18 French take Vailly
May 4 " " Craonne
5 " " Chemin des Dames
6 " occupy Craonne ridge
June 26–Aug. 21 Operations round Lens
Aug. 15 Canadians take Hill 70
Oct. 17–Nov. 2 Allies renew Aisne offensiv
Oct. 23–26 Battle of Malmaison
Oct. 23 French take Malmaison fort Germans defeated on the Ailette
Nov. 2 Germans evacuate Chemin des Dames; retreat across the Ailette

.4317 **Northern France Nov. 3-Dec.**
Nov. 20–Dec. 13 Battle of Cambrai Introduction of tank warfare
Nov. 20 British smash Hindenburg line from Arras to St Quentin
26 British take Bourlon wood
30 Germans counterattack in Cambrai salient
Dec. 2 Germans retake Masnières

Campain of 1917 *continued*

940.4318 **Eastern France**
Aug. 17–Sep. 8 French win important victories at Verdun

.4321 **Austro-Italian front Trentino**
June 10 Italians take Agnelio pas

.4322 **Austro-Italian front Isonzo-Caporetto activities Jan.-June**
May 12–Oct. Italians advance against Austro-Hungarians
May 23 Italian success on Carso plateau
June 5 " defeat " " "

.4323 **Austro-Italian front Isonzo-Caporetto activities July-Sep.**
Aug. 19 Italian activity renewd on Julian and Carso fronts Italians invade Bainsizza plateau
24 Italians take Monte Santo
29 " gain complete control of Bainsizza plateau
31 Italians gain foothold on Monte San Gabriele
Sep. 6 Austrians drive Italians from " " "
14 Italians take summit of " " "
29 " strengthen control of Bainsizza plateau

.4324 **Austro-Italian front Isonzo-Caporetto activities Oct.-Dec.**
Oct. 23–Nov. Battle of Caporetto Austro-Germans counterattack
Oct. 28–30 Austro-Germans take Gorizia (Goeritz), Cividale and Udine
Nov. 4 Austro-Germans cros Tagliamento river
9 Italians make a stand on the Piave
10 Austro-Hungarians cros the Piave
12 Italians evacuate Fonzaso
13 Austro-Germans repulst on the Piave
Dec. 19 Italians retake Monte Asolone
23 Germans take Col del Rosso
30 French retake Monte Tomba

.4325 **Galicia**
July 1–16 Russians assume offensiv under Kerensky
July 1– 6 Battle of Brzezany
July 1 Russians take Koniuchy
10 Russians take Halicz
12–16 " " and lose Kalusz

Campain of 1917 *continued*

940.4325 **Galicia** *continued*
July 19–Aug. 3 Teuton forces advance against Russians
July 19–26 Battle of Zborów
July 22 Germans take Tarnopol
23–Aug. 3 Russians retreat
July 23 Germans retake Halicz and Stanislau
Aug. 3 Austro-Germans occupy Czernowitz

.4326 **Russia in Europe**
Ap. 3–Dec. 12 German offensivs
Ap. 3 Russians defeated on Stokhod river
Aug. 21–Dec. Great German offensiv on Riga front
Sep. 3 Germans take Riga
23 " " Jacobstadt
Oct. 18 Russians evacuate Reval (Revel)

.4327 **Rumania**
Jan. 4 Russians driven out of Dobruja
5–7 Germans take Braila and Fokshani (Focshani, Foscani) fortress
8 Battle of Sereth river
Aug. 6 " " Marasesti (Marasheshti)

.4328 **Serbia**
Ap.–May Offensiv in Doiran sector British attack Bulgarian positions

.4331 **Turkey in Asia Palestine**
Oct. 31–Dec. 30 British advance in Palestine
Oct. 31 British take Beersheba
Nov. 6 " " Gaza
8 Turks evacuate Wadi Hesi
9 British take Ascalon
16 " " Jaffa (Joppa)
Dec. 6 " " Hebron
9 " " Jerusalem
30 " " Bireh

.4332 **Turkey in Asia Armenia**
Mar. 18 Russians take Van
May 2 " evacuate Mush

.4333 **Turkey in Asia Mesopotamia**
Feb.-Oct. British advance in Mesopotamia
Feb. 16 British drive Turks from Dahra Bend
24 " retake Kut-el-Amara
Mar. 4 " reach Bakuba
11 " take Bagdad
May 1 " defeat Turks at Jebel Hamrin
Sep. 29 " take Ramadie

.4334 **Persia**
Mar. 3 Russians take Hamadan
14 " " Kermanshah
22 " " Kerind from Turks

Campain of 1917 *continued*

940.4335 **East Asia**
Dec. 26 Chinese defeat Russians at Harbin, Manchuria

.4338 **Colonial operations**
Dec. 1 British complete conquest of German East Africa

.434 Campain of 1918 Belgium and France Final German offensivs Jan.–July

.4341 **1st German offensiv: 1st phase of battle of Picardy, or 2d battle of the Somme Mar. 21-Ap. 6**
Mar. 21 Germans take Maissemy and Ronssoy; bombard Paris with long range gun
22 Germans take Epéhy, Le Verguier and Tergnier
23 " break thru at St Quentin and Monchy
24 " take Chauny, Ham and Péronne
25 " " Bapaume, Barleux, Nesle and Noyon; reach Courcellette
26 Germans take Roye
27 " " and lose Albert, and take Proyart and Montdidier British retake Chipilly and Morlancourt
31 Germans reach the Marne

.4342 **2d German offensiv: 2d phase of battle of Picardy, or battle of the Lys Ap. 7-May 26**
Ap. 9 Germans take Laventie and Richebourg l'Avoué
10 Germans take Armentières, Estaires and Ploegsteert wood
11 Germans take Merville, Messines and Nieppe British withdraw from Hill 63
12 Germans take Locon
12–16 British withdraw from Passchendaele ridge, in Ypres salient
14 Germans take Neuve-Eglise
15 " " Bailleul and Villers-Bretonneux
16 Germans occupy Spanbroekmolen and Wytschaete
24 British retake Villers-Bretonneux
26 Germans take Mont Kemmel
May 12 French retake Hill 44

.4343 **3d (or Aisne and Marne) German offensiv May 27-June 8**
May 27 Germans cros Vesle river at Fismes
28 Americans take Cantigny
29 Germans " Soissons Allies abandon Fère-en-Tardenois and Ville-en-Tardenois
June 3 French retake Choisy
4 Germans driven back across the Marne
6 Allies take Bouresches
7 " " Neuilly-la-Poterie

940.434 Campain of 1918 Belgium and France Final German offensivs *continued*

.4344 **4th German offensiv: battle of Noyon or battle for Compiègne June 9-July 14**

June 9 Germans reach Mareuil
10 Americans take Belleau wood Germans take Belloy, Méry and St Maur
11 French abandon Carlepont wood and Ourscamp forest
15 Germans driven out of Coeuvres-et-Valsery
July 1 Americans take Beau Repaire farm, Berzy-le-Sec, Vierzy and Vaux
4 Allies take Hamel and Vaivre wood
8–11 British victories in Picardy

.4345 **5th German offensiv: 2d battle of the Marne July 15–18**

.435 Campain of 1918 Belgium and France Allied offensiv: 1st period July 18–Sep. 24

.4351 **Marne salient July 18–Aug. 4**

July 18 Americans take Torcy
19 Germans begin retreat across the Marne British take Meteren
21 Allies take Bouilly, Château-Thierry and Mont St Père hights Americans take Chartèves and Jaulgonne
23 French take Aubvillers, Mailly-Raineval and Sauvillers
24 Americans retain Epieds

.4352 **Marne salient *continued* July 25-Aug. 4**

July 25 Allies take Coincy French take Hill 141 and Oulchy-la-Ville
26 French take Oulchy-le-Château
27 Americans reach the Ourcq
28 Allies cros the Ourcq
29 " take Fère-en-Tardenois Americans take Hill 230
30 Americans take Sergy and Seringes
Aug. 1 Allies " Cramoiselle Franco-American forces take Cierges
2 Allies take Ville-en-Tardenois, Coulonges, Gueux and Thillois French occupy Soissons
4 Allies take Fismes

.4353 **Somme salient Aug. 5-Sep. 12**

Aug. 8–25 Albert-Montdidier salient Battle of Amiens
Aug. 10 Allies take Chipilly ridge, Lihons, Montdidier and Morlancourt
11 Allies take Proyart
13 French " Canny-sur-Metz
14 " " Ribécourt
15 Canadians " Daméry and Parvillers
19 French " Le Hamel

940.435 Campain of 1918 Belgium and France Allied offensiv: 1st period *continued*

.4353 **Somme salient Aug. 5-Sep. 12 *continued***

Aug. 21 Allies take Mont Kemmel British take Ablainzevillc, Achiet-le-Grand, Achiet-le-Petit, Bcaucourt, Bucquoy, Courcelles and Moyenneville French take Camelin, Cuts, Pontoise and Lassigny Battle of Bapaume
22 British take Albert (Ancre)
24 " " Bray and Thiépval
25 " " Contalmaison, Le Sars, Mametz and Martinpuich

.4354 **Somme salient *continued* Aug. 26-Sep. 6**

Aug. 27 French take Roye
28 " " Chaulnes
29 " " Noyon British take Combles Germans lose Bapaume
30 Allies take Cuffies Americans take Chavigny and Juvigny
Sep. 1 British take Bouchavesne, Péronne and Rancourt
6 French take Chauny and Ham

.4355 **Somme salient *continued* Aug. 26-Sep. 12 Battle of the Scarpe**

Aug. 26 Canadians take Wancourt and Monchy-le-Preux
27 Canadians take Cherisy, Vis-en-Artois and Bois-du-Sait Scots takc Fontaine-les-Croisilles, Roeux and Gavrelle
28 Canadians take Croisilles, Boiry and Pelves
30 British " Bullecourt
Sep. 2 " attack Drocourt-Quéant linc
3 " take Quéant
4 Germans evacuate Lens
12 British take Havrincourt and Trescault

.4356 **Lys salient Aug. 5-Sep. 11**

Aug. 5 British take La Bassée
5–7 " advance; take Locon and Outtersteene
19 British take Merville
30 " " Bailleul
31 " " Mont Kemmel
Sep. 2 Americans take Voormezeele British take Neuve-Eglise

.4357 **St Mihiel salient (Allies) Sep. 12–24**

Sep. 12–14 Battle of St Mihiel
Sep. 12 Americans destroy German St Mihiel salient
15 British take Maissemy
20 " " Moeuvres

940.436 Campain of 1918 Belgium and France Allied offensiv: 2d period Sep. 25–Nov. 11

.4361 **Argonne-Meuse offensiv: 1st phase Sep. 25-Oct. 10**

Sep. 26 Americans smash Hindenburg line in the Argonne; take Cheppy, Gercourt, Varennes and Montfaucon; advance at Guicy
French take Butte de Mesnil, Navarin farm and Servon

27–28 Americans take Exermont, Ivoiry, Epinonville, Charpentry, Very, Marcheville and Rieville

28 Allies take Poelcapelle French take Chemin des Dames, Fort Malmaison and Somme-Py British retake Passchendaele

29 Americans take Brieulles-sur-Meuse
Belgians take Dixmude

30 Allies take Romagne Americans take Apremont

.4362 **Argonne-Meuse offensiv: 1st phase** *continued* **Sep. 26–Oct. 10 Battle of Cambrai-St Quentin**

Sep. 27 Americans cros Canal du Nord

28 " take Marcoing,Fontaine-Notre-Dame, Cantaing and Noyelles

29 Americans take Bellicourt, Nauroy, Oppy and Biache–St Vaast

30 Allies take Thornigny and Le Tronquoy

Oct. 2 Allies take St Quentin

9 " " Cambrai

10 " " Le Cateau and St Souplet

.4363 **Argonne-Meuse offensiv: 2d phase Oct. 1–31**

Oct. 2 Belgians take Handzaeme and Hooglede
British take La Bassée and Rolleghemcapelle

2–9 Americans drive Germans from Reims region

3 Germans evacuate Armentières and Lens

4 " take Gesnes

5 French " Brimont fort

7 Allies " Berry-au-Bac and St Etienne
Americans " Brancourt, Chatel-Cléhéry, Consenvoye, Haumont woods and Prémont

8 Allies gain complete possession of Siegfried zone or Hindenburg line

9 Americans take Fléville British take Ramillies

.4364 **Argonne-Meuse offensiv: 2d phase** *continued* **Oct. 10–17**

Oct. 11 Americans take Vaux-Andigny

12 French " Vouziers

13 " " La Fère, Laon and St Gobain Massif

14 Allies take Roulers (Rousselaere) Americans encounter Kriemhilde line; take St Juvin
French take Sissonne

940.436 Campain of 1918 Belgium and France Allied offensiv: 2d period *continued*

.4364 **Argonne-Meuse offensiv: 2d phase Oct. 10–17** *continued*

Oct. 15 Allies take Olizy, Termes, Thourout and Comines British take Menin

16 Americans take Grandpré British take Wervicq and Wevelghem

17 Allies take Bruges and Ostend Americans take Côte de Chatillon British take Douai and Lille

.4365 **Argonne-Meuse offensiv: 2d phase** *continued* **Oct. 17–31**

Oct. 17–25 Battle of Selle river

18 Allies take Blankenberghe, Thielt, Wassigny and Zeebrugge British take Roubaix and Tourcoing Americans take Banthe-ville

19 British take Denain

26 " " Englefontaine and Famars

31 Americans " Bellejoyeuse farm

.4366 **Argonne-Meuse offensiv: 3d (final) phase Nov. 1–11**

Nov. 1 Americans take Aincreville, Doulcon, Andevanne and Landres et St Georges British take Valenciennes

1–11 Battle of the Sambre

2 Americans take Busancy

3 " " Authe, Chatillon-sur-Bar, Fosse, Nouart, Halles and Spitaals Bosschen

4 British take Landrecies

5 Allies break Hunding line French take Guise Americans cros the Meuse; take Liny-devant-Dun and Milly-devant-Dun

6 French take Rethel Americans take Woevre hights

7 British reach Bavai Americans enter Sedan

9 Allies take Tournai French take Hirson
British take Maubeuge

10 French take Mézières and Charleville
Belgians recover Ghent

11 Canadians take Mons

.4371 **Austro-Italian front Jan.-May**

Jan. 2–Feb. 11 Austro-German retreat

22–24 " " attacks in Trentino repulst

28 Italians advance on Asiago plateau; victorius on Col di Chelo (Col d'Echele) and on Col del Rosso

29 Italians victorius on Monte di Val Bella

May 10 Italians take Monte Corno

16 " begin new offensiv

27 " take summit of Monte Zignolon, in Trentino

Campain of 1918 *continued*

940.4372 **Austro-Italian front June-July**

June 15–16 Austrian offensiv opend on Asiago plateau and in Monte Grappa region
19 French take Bertigo and Pennas
19–24 Austrians driven across the Piave
29 Italians take Sasso Rosso and Monte di Val Bella
30 Italians take Col del Rosso and Col di Chelo (Col d'Echele)
July 16 Last of Austrians driven across the Piave
19 Italians take Castalunga
20 " reoccupy Corno di Cabento and Monte Stabiel
24 Great Italian offensiv against Austrians Italians take Monte Solarolo French take Monte Sisemol

.4373 **Austro-Italian front Aug.-Nov.**

Oct. 24–Nov. 4 Italians crush Austro-Hungarian armies on Venetian front, pushing them back on Friuli plain
28 Allies take Alano hights
29 Italians " Conegliano, Monte Cosen, Vittorio and Valdobbiadene
31 Italians reach Ponte nell' Alpi
Nov. 3 " take Trent, Udine, Trieste and Rovcreto

.4374 **Russia in Europe**

Jan. 28 Rumanians take Kishineff
31 Bolsheviki " Kiev
Feb. 1 " " Odessa and Orenburg
9 Poles " Smolensk from Bolsheviki
15 " defeat Bolsheviki at Bobruisk
18 Germans take Dvinsk (Dunaburg) and invade Ukraine
20 Turks begin offensiv in the Caucasus
21 Germans take Rovno fortress and Minsk
25 " " Reval (Revel) and Pskoff (Pskov)
Mar. 2 Germans and Ukrainians occupy Kiev (Kieff)
5 " occupy Narva
13 " enter Odessa
31 " advance in Ukraine; take Poltava
Ap. 13 Turks occupy Batum
27 " enter Kars
May 1 Germans occupy Sevastopol
19 Moslems and Bolsheviki battle at Baku
July 8 Czechoslovaks take Nikolsk
Aug. 2 Allies take Archangel
Sep. 11 Czechoslovaks defeat Bolsheviki near Ekaterinburg

.4375 **Finland**

Feb. 6 White guards occupy Uleaborg
Mar. 14 Germans occupy Abo
Ap. 13 " " Helsingfors

Campain of 1918 *continued*

940.4376 **Serbia**

Sep. 15 Allied offensiv between Vardar river and Lake Doiran begins
24 French take Prilep
26 Serbs and British take Kochana
27 " " " " Veles (or Koprülü)
Oct. 12 " take Nish (Nisch, Nissa)
16 " " Kragujevatz

.4377 **Bulgaria**

Sep. 26 British and Greeks invade Bulgaria
27 " take Strumiza (Strumnitza)

.4378 **Albania**

July 11 French and Italians occupy Berat
20 Allies take Meran and Mt Tizec
Oct. 1 Italians retake Berat (lost in Aug.)
7 " occupy Elbasan (El Bassan)
14 " take Durazzo

.4381 **Turkey in Asia Asia Minor**

Feb. 24 Turks take Trebizond
Mar. 11 " " Erzerum
Oct. 1 British occupy Damascus
7 " take Beirut
26 " " Aleppo

.4382 **Turkey in Asia Palestine**

Jan. 31 British penetrate Mukhmas
Feb. 21 " take Jericho
Sep. 20 " occupy Nazareth
23 " take Es-Salt
24 " " Haifa and Acre
25 " occupy Tiberias
29 " take Gaza
Oct. 6 " occupy Zahlek and Rayak
7 " " Sidon
13 " " Tripoli
15 " " Homs

.4383 **Turkey in Asia Mesopotamia**

Mar. 26 British advance in Mesopotamia
28 " defeat Turks at Hit
Ap. 27 " take Kirfa
May 7 " " Kirkuk
Oct. 28 " " Kalat Shergot
30 Entire Turkish force surrenders on Tigris

.4384 **Persia**

June 14 Turks take Tabriz

.4385 **East Asia Siberia**

Ap. 5 British and Japanese land at Vladivostok
June 7 Czechoslovaks take Chita
8 " reach Vladivostok
Aug. 15 Americans land at "
22 Allies advance in Siberia
Sep. 5 Japanese occupy Khabarovsk

.4388 **Colonial operations**

Nov. 25 Remnants of German forces in German East Africa surrender

.439 Armistice Nov. 11, 1918

.4393 **Celebrations**

940.44 Air warfare

.441 **Air servis**
Observation and scouting, artillery detecting, range finding; signaling; bombing, land fighting, naval fighting, antisubmarine; coast patrol

.442 **Organized raids**
Special raids ar preferably clast under 940.444–.448

2 On England
3 " Germany
4 " France

.443 **Air servis bases**

.444 **Events of 1914**
Aug. 30 German raids on Paris
Oct. 8 British attack Dusseldorf and Cologne
Dec. 24 German air raid on England
25 British ships with hydroplanes raid Cuxhaven
See also 940.454

.445 **Events of 1915**
Jan.-Dec. German raids on England
Feb. 12 British aircraft raid Belgian coast
June 12 Italian aviators destroy arsenal at Pola
See also 940.4248
15 French bombard Karlsruhe
Oct.-Dec. " " Metz

.446 **Events of 1916**
Jan.-Dec. Paris raided by zeppelins
Battles of Verdun See also 940.4273
Jan. 29–31 England raided by zeppelin and airplanes
Mar. 15 Italians bombard Trieste See also 940.4274
20 Allied airplanes bombard Zeebrugge
Sep. 5 Germans bombard Constanza See also 940.4281
26 " " Bukarest
Nov. 10 1st general air battle of the war
See also 940.4272

.447 **Events of 1917**
Ap. 7 Air battle over Hindenburg line
See also 940.4314
24 2d battle of Arras See also 940.4315
May 18 Battle in the Adriatic See also 940.457
July 28 Germans raid Paris
Oct. 1 " " London
20 German zeppelins and French planes battle
23–26 French aviators fight 611 aerial engagements during battle of Malmaison
See also 940.4316
Dec. 27 Engagement on Italian front
See also 940.4324

940.448 **Events of 1918**
Jan. Germans raid Paris
Mar. 1 " " Toul See also 940.4344
25 Allies attack Nesle and Bapaume
See also 940.4341
May 23 French attack Ghent See also 940.4342
July 19–20 Italian victory at Piave See also 940.4372
Aug.–Nov. Successful fighting by allied fliers: Albert Montdidier salient (see also 940.4353); Ludendorff offensiv, Marne salient (see also 940.4343); Reims offensiv
Sep. 23 Allies bomb Constantinople

.449 **History of air warfare**
Including special fliers and airships. Divide like 940–997

.45 Naval history

.451 **Submarine warfare**

2 **German use of submarine ('U' boat)**
War on neutrals; blockade; attack on merchantmen and cruisers of Allies

3 **Use of submarine by Allies**
Divided like 940–999

4 **Important events**
1915 Feb. 18 Germans begin organized submarine warfare
May 7 Lusitania sunk by German submarine
See also 940.455
1916 Mar. 24 Sussex sunk without warning
1917 Jan. 31 Germany announces unrestricted submarine warfare
1918 Feb. 16 Raid on Dover

6 **Antisubmarine warfare**
Camouflage, chasers mine fields, nets, 'Q' or mystery boats, etc.

.452 **Blockades and blockade running**
Submarine blockade, German war zone, British embargo and blockade, contraband

.453 **Naval bases**
British: China, East Indies, Cape of Good Hope, New Zealand, Australia
French: Toulon, Dunkirk, Brest, Calais, Cherbourg
German: Zeebrugge, Wilhelmshaven, Helgoland, Ostend, Kiel, Cuxhaven, Borkum

.454 **Events of 1914**
Aug. 28 British victory in Helgoland bight
Oct. 19 " bombard Nieuport See also 940.4213
29 Turkish cruisers bombard Theodosia and Odessa
Nov. 1 German victory in the Pacific, off Chilean coast, battle of Coronel
3 German raid into English waters
10 " cruiser Emden caught and destroyd at Cocos iland
Dec. 8 British victory off Falkland ilands
16 German warships bombard West Hartlepool, Scarborough and Whitby
25 British ships with hydroplanes raid Cuxhaven
See also 940.444

940.455 **Events of 1915**
- Jan. 24 British victory in North Sea, off Dogger bank
- Feb. 2–25 Anglo-French squadron bombards Dardanelles
  See also 940.4259
- May 7 Lusitania sunk by German submarine
  Preferably clast in 940.4514
- June 2 British on Tigris secure surrender of Kut-el-Amara
- Sep. 24 British bombard Zeebrugge
- Oct. Allies " Bulgarian coast

.456 **Events of 1916**
- Ap. 17 Russians bombard Trebizond See also 940.4291
- May 31 British victory off Jutland
- Aug. 9 Italians take Gorizia See also 940.4274

.457 **Events of 1917**
- May 14–18 Battle in the Adriatic See also 940.447
- Oct. 18 " " Gulf of Riga

.458 **Events of 1918**
- Jan. 20 British bombard Ostend
- Oct. 3 Austrian naval base and warships at Durazzo destroyd
- 15–17 British warships enter Ostend See also 940.4364

.459 **Naval history of special countries** Divided like 940–999

.46 Celebrations Commemorations
Usually better clast with event commemorated. For American patriotic societies of this war, see 369.186

.461 War meetings Divided like 940–999

.463 Flag presentations " " "

.464 Decorations: presentation " " "

.465 Monuments Memorials " " "
General, of the war or a country's part in it; but clas memorials of a special event with that event

.467 Rolls of honor Lists of ded Divided like 940–999

.47 Prisons Hospitals Charities

.472 Prisons
Divided like 940–999 and including internment camps

.473 Exchange of prisoners

.475 Medical department: surgeons, nurses See also 616 and 617
- 2 **Sanitary affairs**
- 3 **Ambulance companies**
- 4–9 **By country maintaining** Divided like 940–999

.476 Hospitals, hospital sketches
- 34–39 **By country in which located** Divided like 940–999
- 4–9 " " **maintaining** " " "

WORLD WAR II 1939—

(Supplement to Decimal Classification and Relativ Index by Melvil Dewey, ed 14, 1942)

NB *References to this war and to the World war I ar enterd in the Relativ Index under* European war

940.53–.54 World war 2 1939—
The following outline is based on 940.3–.4 Tho a definitiv scheme cannot be provided before the war is over, the most important subdivisions are given below

SUMMARY

940.531	Political history
.532	Diplomatic history
.533	Groups of countries: allies and neutrals
.534–.539	Individual countries
.54	Military history
.541	Land operations
.542	Special campains and battles
.544	Air operations
.545	Naval operations
.546	Celebrations, commemorations
.547	Prisons, hospitals, welfare work
.548	Personal narrativs, secret service, propaganda
.549	Illustrativ material

940.531 Political history
Clas here temporarily war aims and peace aims; e.g. "Atlantic Charter"
See also 940.53144 Reconstruction

- 1 Causes
- 12 Historical, political and diplomatic causes
- 13 Economic causes
- 2 Efforts to preserv or restore peace
  See also 940.532 Diplomatic history
- 29 By country
  Divided like 940–999
- 4 Results: terms of peace
  (To be used with proper subdivisions after adoption of peace treaties)
- 44 Reconstruction
  Clas here plans, problems and discussion in general of the post-war world
- 5 Relations of various classes
  Subdivided like the whole classification, using 9 for refugees, divided like 940–999 by country of origin; e.g. 940.53159438 Polish refugees. See also 940.5316
- 52 Clergy Church
  Subdivide 940.53152–528 like 280, but use 940.5315289 for sects in 289; e.g.
  940.531521 Greek Catholic church
  940.531522 Roman Catholic church Pope
  940.53152895 Christian scientists
  Use 940.531529 like 290; e.g.
  940.5315296 Jews
  940.5315297 Mohammedans Holy war

940.5316 Other special classes
61 Noncombatants Children
62 Pacifists Conscientious objectors
63 Enemy sympathizers
For saboteurs, spies and " Fifth column " see 940.5485
8 Relations of special interests Aspects
Divided generally like the classification; e.g. Economic aspect 940.531833

.532 Diplomatic history
See also 940.531 Political history
2 United Nations
Including anti-Axis nationalist groups; e.g. Free French movement. Divided like 940–999
4 Axis Powers
Including pro-Axis nationalist groups; e.g. Quisling movement. Divided like 940–999
5 Neutrals
Divided like 940–999

.533 Groups of countries: allies and neutrals
Collectively; for individual countries see 940.534–.539
2 United Nations
4 Axis Powers
5 Neutrals
6 Occupied countries Occupation
7 Occupation by Axis Powers
8 " " United Nations

.534–.539 Individual countries
Divided like 940–999
Under each country further subdivision may be made with the following numbers, if its part in this war is clast here insted of with the rest of its history:
01 Political history Causes
02 Diplomatic history
03 Local (states, countries, provinces, cities)
04 Military organization
Clas operations in 940.54
05 Aspects: economic and other
06 Celebrations
07 Prisons, etc.
08 Personal narrativs, secret service, propaganda
09 Illustrativ

.54 Military history
.5401 Strategy
12 United Nations
Divided like 940–999
13 Axis Powers
Divided like 940–999
2 Recruitment Drafts Volunteers
Clas here general discussions only. When relating to special country clas under 940.534–.539
3 American Negroes American Indians
Clas here general discussion of use of such troups. For their history as military units see 940.541273
4 Other racial and national groups
For general discussions only. See note under 940.5403

940.5405 Penal and malign mesures
Deportation, segregation of dangerous or undesirable groups and individuals, confiscation, censorship. For conscientious objectors see 940.53162; for concentration camps, etc., see 940.5472
56 Frightfulness Cruelty
As military expedient. For other aspects see Cruelty in Relativ Index

.541 Land operations
For general works on land operations by countries involved. Clas here also concerted operations of land forces with other services; e.g. land and naval forces; land and air forces; land, air and naval forces
1 Special branches of service
Clas here material on various land services not limited to special countries or belligerent groups; e.g. organization (armies, corps, divisions, etc.) training camps, specific services (infantry, paratroops, guerillas, cavalry, tank corps, artillery, etc.) supply services (quartermaster's and ordnance departments) etc. If material is broad it may be clast in 355–358. For medical, sanitary and ambulance services see 940.5475
2 Military organizations of United Nations
Divided like 940–999
3 Military organizations of Axis Powers
Divided like 940–999
4 Battle fronts
Proper subdivisions to be provided after the war is over

.542 Special campains and battles
Including separate armistices such as Franco-German and Franco-Italian. Proper arrangement of material which belongs here can be provided only after the war is over

.544 Air operations
Material on events of air warfare to be clast here until proper subdivisions (similar to those in 940.444–) can be provided after the war is over
1 Air service
Observation and scouting, artillery detecting, range finding, signaling, bombing, land, air, or naval fighting, antisubmarine operations, coast patrol with airplanes, airships, blimps, etc., balloon barrage
2 Organized raids
3 Air bases

.545 Naval operations
Material on events of naval warfare to be clast here until proper subdivision (similar to those in 940.454–) can be provided after the war is over
1 Submarine warfare
12 Use of submarines by Axis Powers
13 Use of submarines by United Nations
16 Antisubmarine operations
Aircraft, camouflage, chasers, mine fields, nets, etc.
2 Blockades and blockade running
Submarine blockade, war zones, embargo, contraband
3 Naval bases

.546 Celebrations Commemorations
Divided like 940.46

940.547 Prisons Hospitals Charities
- 2 Prisons
  Including internment and concentration camps and areas. Divided like 940–999
- 3 Exchange of prisoners
- 5 Medical departments: surgeons, nurses
  See also 616 and 617
- 52 Sanitary affairs
- 53 Ambulance units
- 54–59 By country maintaining
  Divided like 940–999
- 6 Hospitals, hospital sketches
- 634–639 By country in which located Divided like 940–999
- 64–69 By country maintaining " " "
- 7 Welfare work
  Clas here material related to welfare work in general, and work by particular organizations except the work of the Red Cross for which special subdivision is provided below
- 71 Red Cross
- 78 By country conducting Divided like 940–999
- 79 By country in which conducted " " "
- 8 Religious life, chaplains, etc.

.548 Personal narrativs, secret service, propaganda
- 1 Personal narrativs: United Nations Divided like 940–999
- 2 " " Axis Powers " " "
- 3 Army life: United Nations " " "
- 4 " " Axis Powers " " "
- 5 Secret service Spies Saboteurs "Fifth column"
- 6 United Nations Divided like 940–999
- 7 Axis Powers " " "
- 8 Propaganda War of nervs Psicologic war
- 86 United Nations Divided like 940–999
- 87 Axis Powers " " "
- 89 In special countries
  Divided like 940–999; clas here propaganda of both sides in a special country

.549 Illustrativ material
Divided like 973.79
For special collections; most material is better clast with its subject: poetry, drama, etc. with literature to which they belong

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940.477 Welfare work Charities
- 1 **Red Cross**
- 2 **Salvation Army**
- 3 **Y M C A**
- 4 **Y W C A**
- 5 **Knights of Columbus**
- 6 **Young Men's Hebrew ass'n**
- 7 **Other: college units, etc**
- 8 **By country conducting** Divided like 940–999
- 9 **By country in which conducted** Divided like 940–999

.478 Religious life, chaplains etc

.48 Personal narrativs, secret servis, propaganda
When relating to some special battle or other event clas with subject
- .481 Personal narrativs: Entente Divided like 940–999
- .482 " Central powers " " "
- .483 Army life: Entente " " "
- .484 " Central powers " " "
- .485 Secret servis Spies " " "
  Clas here works including activities of both sides, but for secret servis or spy activities of one of the belligerents or groups of belligerents in a special country prefer 940.486–.487
- .486 **Entente** Divided like 940–999
- .487 **Central powers** " " "
- .488 Propaganda
  - 6 **Entente** " " "
  - 7 **Central powers** " " "
  - 9 **In special countries**
    Clas here works including propaganda of both sides but for propaganda in a special country by one of the belligerents or groups of belligerents prefer 940.4886–7

.49 Illustrativ material Divided like 973.79
For special collections; but most material should be clast with its subject: poetry, drama etc, with the literatures to which they belong

.5 **Later 20th century** Including works on 20th century as a whole
- .51 1919–29 .52 1930– .53–.54 European war 1939– Divided like 940.3–.4: e.g. Causes 940.5311

941 Scotland

Period divisions

- .01 Gaelic period –1097
- .02 English period 1097–1314
  Struggle for national freedom
- .03 Independent kingdom 1314–1424
- .04 The Jameses 1424–1557
- .05 Reformation 1557–1603
- .06 Union of crowns and parliaments 1603–1707
- .07 Hanover 1707–1837
- .08 Later Hanoverian Windsor 1837–

Geografic divisions

- .1 **Northern Scotland**
  .11 Shetland .12 Orkney .13 Caithness .14 Sutherland .15 Cromarty .16 Ross .17 Hebrides
- .2 **North central Scotland**
  .21 Inverness .22 Nairn .23 Elgin .24 Banff .25 Aberdeen .26 Kincardine

941.3 **South central Scotland**
.31 Forfar .32 Perth .33 Fife .34 Kinross .35 Clackmannan .36 Stirling .37 Dumbarton .38 Argyll .39 Bute

.4 **Southern Scotland**
.41 Renfrew .42 Ayr .43 Lanark .44 Linlithgow .445 Edinburgh .45 Haddington .455 Berwick .46 Peebles .465 Selkirk .47 Roxburgh .48 Dumfries .49 Kirkcudbright .495 Wigtown

941.5 Eire (Ireland)

Period divisions

.51	Early history	–1086
.52	Separate kingdoms	1086–1172
	Conquest by Henry 2	
.53	Plantagenet	1172–1399
.54	Lancaster and York	1399–1485
.55	Tudors	1485–1603
.56	Stuarts	1603–91
	Closing with treaty of Limerick	
.57	Hanover	1691–1801
	Closing with the union	
.58	19th century	1801–1900
.591	Early 20th century	
	Government of Ireland act, 1920	
	Northern Ireland	1920–
	Southern Ireland	1920–22
	Irish Free State act, 1922	
	Irish Free State	1922–37
	Eire	1937–

Geografic divisions of Ireland

941.6 **Ulster**
.61 Antrim .62 Londonderry .63 Donegal .64 Tyrone .65 Down .66 Armagh .67 Monaghan .68 Fermanagh .69 Cavan

.7 **Connaught**
.71 Leitrim .72 Sligo .73 Mayo .74 Galway .75 Roscommon

.8 **Leinster**
.81 Longford .815 West Meath .82 Meath .825 Louth .83 Dublin .84 Wicklow .85 Kildare .86 King's co. .87 Queen's co. .88 Carlow .885 Wexford .89 Kilkenny

.9 **Munster**
.91 Waterford .92 Tipperary .93 Clare .94 Limerick .95 Cork .96 Kerry

942 England

Including works on Great Britain

Period divisions

For specially minute work the 6th figure printed for each soveren may be used; e. g. Henry 7 is 942.051

.01 **Anglo-Saxon** –1066
Prehistoric, Roman, British, Danish

.02 **Norman** 1066–1154
1 William 1 *1066–87* 2 William 2 *1087–1100* 3 Henry 1 *1100–35* 4 Stephen *1135–54*

.03 **Plantagenet** 1154–1399
1 Henry 2 *1154–89* 2 Richard 1 *1189–99* 3 John *1199–1216* 4 Henry 3 *1216–72* 5 Edward 1 *1272–1307* 6 Edward 2 *1307–27* 7 Edward 3 *1327–77* 8 Richard 2 *1377–99*

942.04 **Lancaster and York** 1400–85
Wars of the roses 1455-85 (Lancaster, red; York, white)
1 Henry 4 *1399–1413* 2 Henry 5 *1413–22* 3 Henry 6 *1422–61* 4 Edward 4 *1461–83* 5 Edward 5 *1483* 6 Richard 3 *1483–85*

.05 **Tudor** 1485–1603
1 Henry 7 *1485–1509* 2 Henry 8 *1509–47* 3 Edward 6 *1547–53* 4 Mary *1553–58* See also 272.6 5 Elizabeth *1558–1603* See also 272.7

.06 **Stuart** 1603–1714
1 James 1 *1603–25* 2 Charles 1 *1625–49* 3 Commonwelth *1649–53* 4 Oliver Cromwell *1653–58* 5 Richard Cromwell *1658–59* 6 Charles 2 *1660–85* 7 James 2 *1685–88* 8 William 3 *1689–1702* 9 Anne *1702–14;* War of Spanish succession

.07 **Hanover** 1714–1837
1 George 1 *1714–27* 2 George 2 *1727–60* 3 George 3 *1760–1820* 4 George 4 *1820–30* 5 William 4 *1830–37*

.08 **Later Hanoverian Windsor** 1837–
1 Victoria *1837–1901* 2 Edward 7 *1901–10* 3 George 5 *1910–36;* 4 Edward 8 *1936* George 6 *1936–*

Geografic divisions

942.1 **London county Middlesex**
.11 London north of Thames: .12 Central London London city, Finsbury, Holborn .13 West London Westminster, Chelsea, Fulham, Hammersmith, Kensington, Paddington .14 North London St Marylebone, Hampstead, St Pancras, Islington, Stoke Newington, Hackney .15 East London Shoreditch, Bethnal Green, Poplar, Stepney **.16 London south of Thames:** Southwark, Bermondsey, Deptford, Greenwich, Woolwich, Lewisham, Camberwell, Lambeth, Battersea, Wandsworth **.17 Environs of London** **.19 Middlesex**

.2 **Southeastern Thames river**
.21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of Wight .29 Berks

.3 **Southwestern**
.31 Wilts .33 Dorset .34 Channel ilands .35 Devon .37 Cornwall .38 Somerset

.4 **West Midland**
.41 Gloucester .43 Monmouth .44 Hereford .45 Salop .46 Stafford .47 Worcester .48 Warwick

.5 **North and South Midland**
.51 Derby .52 Notts .53 Lincoln .54 Leicester .545 Rutland .55 Northampton .56 Huntingdon .565 Bedford .57 Oxford .575 Buckingham .58 Hertford .59 Cambridge

.6 **Eastern**
.61 Norfolk .64 Suffolk .67 Essex

.7 **Northwestern and Yorkshire**
.71 Cheshire .72 Lancashire .74 Yorkshire

.8 **Northern**
.81 Durham .82 Northumberland .85 Cumberland .88 Westmoreland .89 Isle of Man

.9 **Wales**
.91 Anglesey .92 Carnarvon .925 Merioneth .93 Denbigh .935 Flint .94 Montgomery .95 Cardigan .96 Radnor .965 Brecknock .97 Glamorgan .98 Carmarthen .99 Pembroke

943 Germany and Austria

Period divisions

.01 **Formativ period** –843
Wars with Rome Charlemagne *800–814* Louis 1 *814–840* Lothaire 1 *840–843*

.02 **Empire before the reformation**
1 **Carolingian** *843–911:* Louis 2 *843–876* Charles 2 *876–877* Charles 3 *877–887* Arnulf *887–899* Louis 3 *900–911*
2 House of **Franconia:** Conrad 1 *911–918* House of **Saxony,** *919–1024:* Henry 1 *919–936* Otto 1 *936–973* Otto 2 *973–983* Otto 3 *983–1002* Henry 2 *1002–24*
3 House of **Franconia** *1024–1125:* Conrad 2 *1024–39* Henry 3 *1039–56* Henry 4 *1056–1106* Henry 5 *1106–25* House of **Saxony:** Lothaire 2 *1125–37*
4 House of **Hohenstaufen** *1137–97:* Conrad 3 *1138–52* Frederick 1 *1152–90* Henry 6 *1190–97*
5 House of **Hohenstaufen** and **Interregnum** *1198–1272:* Philip *1198–1208* Otto 4 *1208–12* Frederick 2 *1212–50* Conrad 4 *1250–54* William of Holland *1254–56* Richard of Cornwall *1256–72*
6 Houses of **Hapsburg, Luxemburg,** etc. *1273–1378:* Rodolph 1 *1273–91* Adolphus *1291–98* Albert 1 *1298–1308* Henry 7 *1308–13* Louis 4 *1313–47* Charles 4 *1347–78*
7 **Interregnum** *1378–1437:* Wenceslaus *1378–1400* Rupert *1400–10* Sigismund *1410–37*
8 Albert 2 *1438–39* Frederick 3 *1440–93*
9 Maximilian 1 *1493–1519*

.03 **Reformation to 1618** 1517–1618
1 Charles 5 *1519–1556* 2 Ferdinand 1 *1556–64* 3 Maximilian 2 *1564–76* 4 Rodolph 2 *1576–1612* 5 Matthias *1612–19*

.04 **Disintegration** 1618–1705
1 Thirty years' war *1618–48* 2 Ferdinand 2 *1619–37* 3 Ferdinand 3 *1637–57* 4 Leopold 1 *1658–1705*

.05 **Rise of Prussia** 1705–89
1 Joseph 1 *1705–11* 2 Charles 6 *1711–40* 3 *1740–42* 4 Charles 7 *1742–45* 5 Francis 1 *1745–65* 6 Seven years war *1756–63* 7 Joseph 2 *1765–90*

.06 **Napoleonic wars** 1789–1815
Leopold 2 *1790–92* Francis 2 *1792–1806* Confederation of the Rhine *1806–15*

.07 **Reorganization** 1815–66

.08 **New German empire** 1866–1918
1 North German confederation *1866–71* 2 Franco-German war *1870–71* 3 William 1 *1871–88* 4 Frederick *1888* William 2 *1888–1918* ; World war *1914–19* and downfall of empire

.085 **German republic** 1918–
Presidency of Ebert *1919–25* Hindenburg *1925–34*

.086 **Hitler** 1933–

Geografic divisions of Germany and Austria

943.1 **Prussia and Northern Germany**
By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia (.11) of West Prussia (.12) and Silesia (.14) wer restored to Poland. Danzig (.12) as part of Poland made free city with 729 sq. mi. of territory
.11 East Prussia .12 West Prussia, Danzig .13 Posen .14 Silesia .15 Brandenburg .16 Pomerania .17 Mecklenburg and Lubeck .18 Prussian Saxony .19 Anhalt

.2 **Central Germany**
.21 Saxony .22 **Thuringia** .23 Saxe-Weimar .24 Saxe-Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen .27 Schwarzburg .28 Reuss

.3 **Bavaria**
.31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria .36 Upper Bavaria .37 Suabia

.4 **Southern Germany**
In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen wer ceded to Belgium, and 783 sq. mi. of Saar valley to France subject to plebiscit in 1934. Alsace (.445) and Lorraine (.45) taken from France in 1871 wer restored. See 944.38
.41 Hesse Darmstadt .42 Rhenish Prussia .43 Palatinate, Rhenish Bavaria .44 Alsace-Lorraine: .445 Alsace .45 Lorraine .46 Baden .47 Wurtemburg .48 *Black Forest* and *Danube* .49 Hohenzollern

.5 **Northwest Germany**
By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark
.51 Schleswig-Holstein: .515 Hamburg .518 Helgoland .52 Oldenburg: .525 Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau

.6 Austria
.61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol, Vorarlberg .648 Liechtenstein .65 Styria .66 Carinthia .67 Carniola .68 Istria, Gorizia and Gradisca .69 Dalmatia

.7 Czechoslovakia
Since Oct. 28, 1918, an independent nation; Bohemia, Moravia, Silesia, Slovakia and autonomous Ruthenia
.71 Bohemia .72 Moravia .73 Silesia .74 Galicia (as a result of the World war, 1914–19, restored to Poland) .75 Bukowina (since Nov. 1918 a part of Rumania)

.8 Poland Including history before the division
Extinct as state from 3d partition in 1795 til 1919, when its soverenty was restored by the peace of Versailles. See also 943.11–.14, 943.73–.74 and 947.4–.5

.9 Transleithania: Hungary, etc.
By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmd; Fiume (.94) was made independent, subject to plebiscit in 4 years (in 1924 assignd to Italy); Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzegovina (.96) wer recognized as part of Jugoslavia (949.7)
.91 Hungary .92 Transylvania .93 Slavonia .94 Croatia, Fiume .95 Bosnia and Herzegovina .955 Bosnia .96 Herzegovina

944 France

Period divisions

.01 **Early history** -987
Ancient Kelts -59 B. C. Roman dominion 59 B. C.-418 A. D. Merovingian dynasty 428-752 Carolingian 752-987

.02 **Capet and Valois** 987-1589
House of **Capet**
1 Hugh Capet *987-996* Robert 2 *996-1031* Henry 1 *1031-60*
2 Philip 1 *1060-1108* Louis 6 *1108-37* Louis 7 *1137-80*
3 Philip 2 *1180-1223* Louis 8 *1223-26* Louis 9 *1226-70*
4 Philip 3 *1270-85* Philip 4 *1285-1314* Louis 10 *1314-16*
John 1 *1316* Philip 5 *1316-22* Charles 4 *1322-28*
House of **Valois**
5 Philip 6 *1328-50* John 2 *1350-64* Charles 5 *1364-80*
6 Charles 6 *1380-1422* Charles 7 *1422-61*
7 Louis 11 *1461-83* Charles 8 *1483-98* Louis 12 *1498-1515*
House of **Angoulême**
8 Francis 1 *1515-47* Henry 2 *1547-59*
9 Francis 2 *1559-60* Charles 9 *1560-74* Henry 3 *1574-89*

.03 **Bourbon** 1589-1789
1 Henry 4 *1589-1610* 2 Louis 13 *1610-43* 3 Louis 14 *1643-1715;* War of Spanish succession 4 Louis 15 *1715-74* 5 Louis 16 *1774-92*

.04 **Revolution** 1789-1804
1 National assembly *1789-92* 2 First republic *1792-99* 3 Convention *1792-95* 4 Reign of terror. May *1793*-July *1794* 5 Directory *1795-99* 6 **First consulate,** Napoleon *1799-1804*

.05 **First empire** 1804-1815
Napoleon 1 *1804-14* Louis 18 *1814-15* The hundred days, March 20-June 29, 1815

.06 **Restoration** 1815-1848
1 Louis 18 *1815-24* 2 Charles 10 *1824-30* 3 Louis Philippe *1830-48*

.07 **Second republic and second empire** 1848-1870
Revolution of *1848* Second republic, Louis Napoleon, pres. *1848-52* Napoleon 3 *1852-70*

.08 **Third republic** 1870-
Franco-German war, Government of national defense *1870-71* National assembly *1871* Presidency of Thiers *1871-73* McMahon *1873-79* Grévy *1879-87* Sadi-Carnot *1887-94* Casimir Périer *1894-95* Faure *1895-99* Loubet *1899-1906* Fallières *1906-13* Poincaré *1913-20;* World war *1914-19* Deschanel *1920* Millerand *1920-24* Doumergue *1924-31* Doumer *1931-32* Lebrun *1932-*

Geografic divisions of France

.1 **Brittany Maine Anjou**
.11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire Inférieure .15 Ille et Vilaine .16 **Maine:** Mayenne .17 Sarthe .18 **Anjou:** Maine et Loire

.2 **Normandy Picardy**
.21 Manche .22 Calvados .23 Orne .24 Eure .25 Seine Inférieure .26 **Picardy:** Somme .27 **Artois:** Pas de Calais .28 **French Flanders:** Nord

944.3 **Champagne Ile de France Lorraine**
.31 Ardennes .32 Marne .331 Aube .332 Haute Marne .34 **Ile de France:** Aisne .35 Oise .36 Seine et Oise, Paris .37 Seine et Marne .38 **Lorraine** (Alsace-Lorraine): .381 Meuse .382 Meurthe et Moselle .383 Alsace (But use .38 for Alsace and Lorraine together) See also 943.44-.45 .39 Vosges

.4 **Burgundy Franche Comté Savoy**
.41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain .45 **Franche Comté:** Haute Saône, Belfort .46 Doubs .47 Jura .48 **Savoy:** Savoie .49 Haute Savoie

.5 **Orléans, etc. Auvergne**
.51 Eure et Loir .52 Loiret .53 Loir et Cher .54 **Touraine:** Indre et Loir .55 **Berry** .551 Indre .552 Cher .56 **Nivernais:** Nièvre .57 **Bourbonnais:** Allier .58 **Lyonnais** .581 Loire .582 Rhône .59 **Auvergne** .591 Puy de Dôme .592 Cantal

.6 **Poitou Limousin**
.61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente Inférieure .65 Charente .66 **Limousin:** Haute Vienne .67 Corrèze .68 **Marche:** Creuse

.7 **Guienne Gascony**
.71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn et Garonne .76 Lot et Garonne .77 **Gascony** .771 Gers .772 Landes .78 Hautes Pyrénées .79 **Béarn:** Basses Pyrénées

.8 **Languedoc**
.81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault .85 Tarn .86 Haute Garonne .87 Aude .88 **Foix:** Ariège .89 Pyrénées Orientales

.9 **Provence Dauphiny**
.91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes Maritimes .949 Monaco, Monte Carlo .95 Basses Alpes .96 **Dauphiny** .97 Hautes Alpes .98 Drôme .99 Isère

945 Italy

Period divisions

.01 Gothic and Lombard kingdoms 476-774
.02 Frankish emperors 774-961
.03 German emperors 962-1122
Hildebrand and papal supremacy
.04 Age of the communes 1100-1300
Free cities Strifes of Guelphs and Ghibelines
.05 Age of the despots 1300-1492
.06 Age of invasions 1492-1527
.07 Spanish-Austrian ascendancy 1527-1796
.08 Struggle for independence 1796-1870
Victor Emmanuel 2, Cavour, Garibaldi
.09 United Italy 1870-
Victor Emmanuel 2 -1878; Humbert 1878-1900; Victor Emmanuel 3 1900- Mussolini

Geografic divisions of Italy

945.1 **Piedmont and Liguria**
.2 **Lombardy**
.3 **Venetia**
.4 **Emilia**
.5 **Tuscany**
.6 **Marches, Umbria and Latium**
.7 **Naples**
.71 Abruzzo and Molise .72 Campania .73 Napoli
.74 Salerno .75 Apulia .753 Lecce, Terra di Otranto
.77 Basilicata, Potenza .78 Calabria .783 Reggio di Calabria
.8 **Sicily Malta**
.9 **Sardinia and Corsica**

946 Spain

Period divisions

.01 **Early history Roman dominion Gothic kingdom** — 711
.02 **Moorish kingdom** 711–1479
.03 **Ferdinand 5 and Isabella** 1479–1516
Discovery
Expulsion of the Moors
.04 **Charles 1 and Philip 2** 1516–98
Inquisition War with the Netherlands Armada Charles 1 (5th of Germany) *1516–56* Philip 2 *1556–98*
.05 **Philip 3–Charles 4** 1598–1808
Degeneration 1 Philip 3 *1598–1621* 2 Philip 4 *1621–65* 3 Charles 2 *1665–1700* 4 House of **Bourbon:** 5 Philip 5 *1700–46* 6 Ferdinand 6 *1746–59* 7 Charles 3 *1759–88* 8 Charles 4 *1788–1808*
.06 **Peninsular war** 1808–14
Joseph Bonaparte
.07 **Bourbon restoration** 1814–68
Attempts at reform
Ferdinand 7 *1814–33* Isabella 2 *1833–68*
.08 **Revolution and 2d restoration** 1868—
Revolution of *1868–70* Amadeus *1870–73* Republic *1873–75* Alfonso 12 *1875–85* Alfonso 13 *1886–1931* 2d republic *1931–*

Geografic divisions of Spain

.1 **Galicia Asturias**
.2 **Leon Estremadura**
.3 **Old Castile**
.4 **New Castile**
.5 **Navarre Aragon**
.6 **Basque provinces**
.7 **Catalonia Balearic iles Valencia Murcia**
.8 **Andalusia Canary iles** Geograficly better in 964.9

.9 Portugal

.91 Entre Minho-e-Douro .92 Tras-os-Montes .93 Beira
.94 Estremadura .95 Alemtejo .96 Algarve .98 **Madeira**
.99 **Azores**

947 Union of Soviet Socialist Republics (Russia)

Period divisions

.01 Primitiv Russia —862
.02 Varangian kingdom 862–1237
Conversion to Christianity
.03 Mongolian invasion 1237–1462
Civil wars
.04 Ivan 3–Ivan 5 1462–1689
Origin of serfdom
.05 Peter the Great 1689–1725
Wars with Sweden and Turkey
.06 Catharine 1–Catharine 2 1725–96
Partition of Poland
.07 Paul 1–Nicholas 1 1796–1855
War with Napoleon
Insurrection of Poland
Crimean war See also 942.08, 944.07, 945.08, 949.6
.08 Alexander 2 1855–81
Emancipation of the serfs
Turko-Russian war
Alexander 3 1881–94
Nicholas 2 1894–1917
Revolution 1917
.084 Republic 1917–

Geografic divisions of Russia

.1 **Finland Lapland**
.2 **Northern Great Russia**
Archangel, Vologda, Olonetz, Novgorod
.3 **Southern Great Russia**
.4 **Baltic provinces Ingria (Ingermanland)**
Courland, Livonia, Esthonia, Leningrad (Petrograd, St Petersburg)
.5 **Russian Poland**
Partly restored to Poland by peace of Versailles 1919. Lithuania
.6 **West Russia**
.7 **Little Russia South Russia Ukraine**
.8 **East Russia**
.9 **Caucasia**

948 Norway Sweden Denmark

Period divisions

.01 **Legendary period** -800
.02 **Consolidation Migration** 801-1397
Introduction of Christianity
Discovery of Iceland, Greenland, and America
Conquest of Britain and Normandy
.03 **Union of the 3 kingdoms** 1397-1523
Civilization Foren relations
.04 **The reformation** 1523-1648
Edict of toleration 1527
30 years war Gustavus Adolphus
.05 **Decline** 1648-1792
Wars vs Denmark, Poland, Russia
Political changes
.06 **Napoleonic wars** 1792-1814
Union of Norway and Sweden 1814
.07 **19th century** 1814-1905
Charles 14 (Bernadotte)
Peace, internal reform. Separation of Norway from Sweden, 1905
.08 **20th century-** 1905-

Geografic divisions

.1 **Norway**
.2 **Oslo (Christiania) Christiansand**
.3 **Bergen Hamar**
.4 **Throndhjem Tromso**
.5 **Sweden**
.6 **Gothland**
.7 **Svealand**
.8 **Norrland**
.9 **Denmark**

949 Other countries of Europe

.1 **Iceland Faroe ilands**
01 Commonwelth *-1264* 02 Medievalism *1264-1551* 03 Absolute rule, Decay *1551-1848* 04 Modern Iceland *1848-*

.2 **Netherlands**
01 Early history *-1477* 02 Austrian dominion *1477-1566* 03 Wars for independence *1566-1648* 04 Age of prosperity *1648-1795* 05 Revolutionary *1795-1830* 06 19th century *1830-1900* 07 20th century *1901-*

.3 **Belgium Luxemburg**

.4 **Switzerland**
01 Early history *-1300* 02 Struggle for independence *1300-1499* 03 Reformation *1499-1648* 04 Period of tranquillity *1648-1789* 05 Period of revolution *1789-1815* 06 19th century *1815-1900* 07 20th century *1901-*

.5 **Byzantine empire and modern Greece**
01 **Greek revival** 323-716
Constantine the great-Theodosius 3
02 **Byzantine prosperity** 716-1057
Leo 3-Michael 6
03 **Byzantine decline** 1057-1204
Isaac 1-Latin conquest of Constantinople
04 **Greek survival** 1204-1453
Constantinople taken by the Turks, 1453
05 **Turkish power** 1453-1821
06 **Greek independence** 1821-
07 **Hellenic republic** 1924-35 **Restoration** 1935-

.6 **Turkey in Europe Balkan states** .61 Constantinople
Also works including Turkey in Asia to 1920. For Turkey in Asia and general works on Turkey since 1920 see 956. If preferd all items on Turkey may be collected on either number

.7 **Jugoslavia: Serbia, Montenegro Bulgaria**
In addition to Serbia and Montenegro, Jugoslavia (Kingdom of the Serbs, Croats and Slovenes, establisht in 1918) includes Dalmatia (943.69), Slavonia (943.93), Croatia (943.94), Bosnia (943.955), Herzegovina (943.96) and Slovenia (943.67)

.8 **Rumania: Wallachia, Moldavia, Dobruja**
Includes also Bessarabia (947.7) added in Mar. 1918, Bukowina (943.75) Nov. 1918, and Transylvania (943.92) Dec. 1918

.9 **Ilands of Greek archipelago**
Divided like 939.1

950 Asia

951 China

Authorities differ widely in dates in early Chinese history and in spelling of proper names. In general, dates used below ar based on Herbert Allen Giles' *Chinese-English Dictionary*, 2d ed., 1912, and spellings follow the standard postal directory and Mandarin standard spelling

Period divisions

.01 Early period –AD960
For Ancient history see 931. If preferd all works on history of China may be kept together here, using .0111–8 like 931.01–.08, e.g. 951.0112 Hsia dynasty (2205–1766 BC)

.012 **Northern and Southern dynasties (treated together)** **386–589**

.013 Northern dynasties 386–589
2 Wei 386–557 5 Chi (Tsi) 550–589 8 Chou 557–589

.014 Southern dynasties 420–589
2 Sung 420–479 4 Chi (Tsi) 479–502 6 Liang 502–557 8 Chên 557–589

.015 **Sui dynasty** **589–618**

.016 **Tang dynasty** **618–907**

.017 **Five Dynasties** **907–960**
2 Later Liang 907–923 4 Later Tang 923–936 6 Later Chin (Tsin) 936–947 8 Later Han 947–951 9 Later Chou 951–960

.018 **Ten States** **891–979**

.02 Sung to Ming dynasties (China united) 960–1644

.022 **Sung dynasty** **960–1280**
2 Northern Sung 960–1127 5 Southern Sung 1127–1280

.023 **Liao (Khitan) and Western Liao dynasties** **907–1168**

.024 **Chin (Tsin, Nü-Chên) dynasty** **1115–1260**

.025 **Yuan or Mongol dynasty** **1280–1368**

.026 **Ming dynasty** **1368–1644**

951.03 Ching or Manchu dynasty 1644–1912

.031 **Shun-chih 1644–62** .032 **Kang-hsi 1662–1723** .033 **Yung-chêng 1723–36** .034 **Chien-lung 1736–96** .035 **Chia-ching (Kia king) 1796–1821** .036 **Tao-kuang 1821–51** Opium war with England 1840–42

.037 **Hsien-fêng** **1851–62**
Taiping rebellion 1850–64 War with England and France 1858–60

.038 **Tung-chih** **1862–75**
Tientsin massacre 1870

.039 **Kwang-hsu** **1875–1909**
Empress Dowager 1835–1908 War with France, los of Anam and Tonkin 1884–85 Sino-Japanese war 1894–95 Reform movement 1898 Boxer uprizing 1900

9 **Hsuan-tung** **1909–12**
Revolution 1911–12

.04 Republic 1912–

.041 **Founding of Republic to Nationalist Revolution** **1912–27**
Sun Yat-sen, provisional President, 1912–13; 2d revolution, 1913; Yuan Shih-kai, 1913–16, etc.

.042 **Nationalist Revolution and rule of Kuomintang** **1927–**
Communist movement; Nationalist revolution and establishment of Nationalist government

5 Conflict with Japan Sino-Japanese war 1931–
Japanese invasion of Manchuria, 1931; invasion of Shanghai, 1932, etc. May be subdivided like 952.0315, e.g. 951.04252 Diplomatic history

Geografic divisions

.1 **Eastern China**

.11 Northeast China, North China; Hwangho or Yellow River valley

.12 Yellow Sea or northeast coast provinces: (Yunliangho or Grand Canal) .13 **Kiangsu** (Cities: *Tungchow, Soochow, Wusih, Chinkiang*, etc. Yangtze delta, Hwai River valley, Tai Hu or Great Lake): .132 *Shanghai* .135 *Nanking* .14 **Shantung** (Cities: *Weihaiwei, Chufou, Taian, Chefoo*, etc. Hwangho delta, Taishan mt): .144 Kiaochow, *Tsingtao* .146 *Tsinan* .15 **Hopei, Chihli (Pechihli)** (Cities: *Chinwangtao, Pehtaiho, Taming, Shihkiachwang, Paoting (Tsingyüan)*, etc.): .154 *Tientsin* .156 *Peiping (Peking)*

.17 **Shansi** (*Tatung* city; mts: Hengshan and Wutaishan): .172 *Taiyuan (Yangkü)*

.18 **Honan** (Cities: *Anyang, Chenchow, Loyang*, etc. Sungshan mt): .182 *Kaifeng*

951.19 Central China

.2 Southeast China, South China: Yangtze River valley

.21 Hukoang, Lianghu: **.212 Hupei** (Cities: *Ichang, Shasi,* etc.): .213 Wuhan or Han cities (*Hankow, Wuchang, Hanyang*) **.215 Hunan** (Cities: *Yochow, Hengyang,* etc. Tungtinghu lake, Hengshan mt) .2152 *Changsha*

.22 Kiangnan, Nanchihli (Includes Kiangsu 951.13): **.222 Kiangsi** (Cities: *Kiukiang, Kuling,* etc. Poyanghu lake, Lushan mt): .2225 *Nanchang* **.225 Anhwei, Nganhwei** (*Wuhu* city; Hungtsch lake, Hwangshan mt) .2252 *Anking* (*Nganking, Huaining*)

.23 China Sea or southeast coast provinces

.24 **Minche; East China Sea provinces:** .242 Chekiang (Cities: *Huchow, Kiahsing, Shaohsing, Ningpo,* etc.; mts: Mokanshan and Tienmoshan) .2425 *Hangchow* city and bay (Sihu or West Lake) .245 Fukien (Cities: *Chuanchow, Amoy, Kulangsu,* etc.) .2452 *Foochow* (*Minhow*) .2455 *Changchowfu* .249 Formosa, Taiwan May be divided like 952.9, which see for works on Taiwan 1895– . If preferd all material on Taiwan may be kept together under either number

.25 **Hongkong, Kowloon** **.26 Macao**

.27 **Kwangtung; South China Sea region** (Cities: *Swatow, Chungshan, Kwangchowan,* etc. Chukiang, Canton or Pearl River): .275 *Canton* (*Kwangchowfu*) .278 Hainan (island) *Kiungchow*

.28 Kwangsi; Si-Kiang or West River valley; Cities: *Wuchow, Kweilin, Nanning* (*Yungning*), etc.

.3 **Western China**

.32 Southwest China

.33 Yunkwei: **.34 Kweichow:** .345 *Kweiyang* **.35 Yunnan** (Cities: *Mengtsz, Tali,* etc.): .355 *Kunming* (*Yunnanfu*)

.37 **Sikang** (Cities: *Kangting* (*Tachienlu, Tatsienlu*), *Paan* (*Patang*), etc. Minya Konka or Bokonka mt) **.38 Szechwan** (*Wanhsien* city; Omeishan mt): .382 *Chungking* .385 *Chengtu*

951.4 Northwest China

.41 Great wall **.43 Shensi** (Cities: *Nancheng* (*Hanchung*), *Tungkwan,* etc. Hwashan mt): .435 *Sian* (*Singan, Siking*) **.45 Kansu** (*Tunwhang,* etc.): .455 *Lanchow* **.47 Chinghai (Tsinghai), Kokonor** (Use as general number for Near Tibet which includes also Sikang 951.37): .472 *Sining*

.5 **Tibet (Thibet), Sitsang** .52 *Lhasa* (*Lassa*)

.6 **East or Chinese Turkestan Sinkiang**

Chinese Central Asia (for Central Asia in general see 958) Cities: *Hotien* (*Khotan*), *Yarkand, Kashgar* (*Shufu*), *Hami, Tihwa* (*Urumchi, Urumtsi*), etc. Mts: Tienshan (Tianshan, Thianshan), Kunlun (Kuenlun), etc. Deserts: Dzungaria (Zungaria), Takla Makan

.7 **Mongolia**

.71 Tannu Tuva *Kizilkhoto* (*Krasny*)

.73 Outer Mongolia (Republic of Mongolia): .735 *Urga* (*Kulun, Ulan Bator Khoto*) .739 Gobi or Shamo desert

.74 Inner or Chinese Mongolia: **.75 Ninghsia (Ningsia)** **.76 Suiyuan** (Cities: *Kweisui* (*Kweihwa-Suiyuan*), *Paotow,* etc.) **.77 Chahar** (Cities: *Changpeh, Kalgan, Wanchuan,* etc.) **.78 Jehol** (*Chengteh* city)

.8 **Manchuria (Manchow) Manchukuo**

Three Eastern (or northeastern) provinces. Manchukuo includes Jehol 951.78

.82 Liaoning, Fengtien, Shengking: **.822 Liaotung peninsula, Kwantung (Kwang-tung, Kwanto)** (Cities: *Dairen* (*Dalny, Talienwan*), *Port Arthur* (*Lüshunkow, Ryojunko*), etc. .824 *Shenyang* (*Mukden*) **.84 Heilungkiang, Amur: Khingan** (Cities: *Manchouli* (*Lüpin*), *Lungkiang* (*Tsitsihar*), etc. Amur or Heilungkiang River valley) **.88 Kirin** (Cities: *Habrin* (*Pinkiang*), *Changchun* (*Hsinking*), *Yungki* (*Kirin*), etc.)

.9 **Chosen, Korea (Corea)** .95 *Seoul* (*Keijo*)

952 Japan Nippon

For Chosen see 951.9

Period divisions

Dates given by different authors vary greatly but generally dates found in the history publisht by order of Japanese Department of Education hav been uzed, as being those officially fixt. In some cases these dates hav obviously been extended to make the series continuous, e.g. an emperor's rule is given as extending beyond date of his deth

.01 Erly period –1186 A D

.011 Mythologic period –660 B C

.012 Prehistoric (or legendary) period 660 B C–400 A D

1 Jimmu *660–585 B C* 2 Suizei *581–549* 21 Annei *548–510* 22 Itoku *510–475* 23 Kosho *475–392* 24 Koan *392–290* 25 Korei *290–214* 26 Kogen *214–157* 27 Kaikwa *157–97* 3 Sujin *97–29* 4 Suinin *29 B C–71 A D* 5 Keiko *71–131* 6 Seimu *131–192* 7 Chuai *192–200*, Jingu, Empress, *200–270* (died *269*) 8 Ojin *270–313* (died *310*) 9 Nintoku *313–400*

.013 Erly historic period 400–645

1 Richu *400–405* 15 Hansho *405–11* 2 Inkyo *411–53* 25 Anko *453–56* 3 Yuryaku *456–80* 35 Seinei *480–85* 4 Kenso *485–88* 45 Ninken *488–99* 5 Buretsu *499–507* 53 Keitai *507–34* (died *531*) 55 Ankan *534–36* 57 Senkwa *536–40* 6 Kimmei *540–72* 63 Bidatsu *572–86* 65 Yomei *586–88* 67 Sushun *588–91* 7 Suiko, Empress, *591–629* 8 Jomei *629–42* 9 Kokyoku, Empress, *642–45* See also 952.0142

.014 Taikwa reform 645–708

1 Kotoku *645–55* 2 Saimei, Empress (Kokyoku restored) *655–61* See also 952.0139 3 Interregnum *661–68* 4 Tenji *668–72* 5 Kobun *672–73* 6 Temmu *673–86* 7 Interregnum *686–90* 8 Jito, Empress, *690–97* 9 Mommu *697–708*

.015 Nara period 708–94

1 Gemmyo, Empress, *708–15* 2 Gensho, Empress, *715–24* 3 Shomu *724–49* 4 Koken, Empress, *749–59* See also 952.0156 5 Junnin *759–65* 6 Shotoku, Empress (Koken restored) *765–70* See also 952.0154 7 Konin *770–82*

952.016 Heian period 794–1186

1 Erly Heian *794–856:* 11 Kwammu *782–806* 12 Heizei *806–10* 13 Saga *810–24* 14 Junna *824–34* 15 Nimmyo *834–51* 16 Montoku *851–56*

2 Fujiwara period *856–1069:* 21 Seiwa *856–77* 215 Yozei *877–85* 217 Koko *885–93* 22 Uda *893–98* 23 Daigo *898–931* 235 Shujaku *931–47* 24 Murakami *947–68* 245 Reizei *968–70* 25 Enyu *970–85* 255 Kwazan *985–87* 26 Ichijo *987–1012* 265 Sanjo *1012–17* 27 Go-Ichijo *1017–37* 28 Go-Shujaku *1037–46* 29 Go-Reizei *1046–69*

3 Taira period *1069–1186:* 31 Go-Sanjo *1069–73* 32 Shirakawa *1073–87* 33 Horikawa *1087–1109* 34 Toba *1109–24* 35 Sutoku *1124–42* 36 Konoe *1142–56* 37 Go-Shirakawa *1156–59* 38 Gem-pei wars *1159–86* 382 Nijo *1159–66* 384 Rokujo *1166–69* 386 Takakura *1169–80* 388 Antoku *1180–86* (died *1185*)

.02 Feudal ages Shoguns 1186–1868

Clas special topics according to dates given for emperors. Names and dates of shoguns and regents ar given merely to guide in classing material relating to these individuals

.021 Kamakura period 1186–1333

1 Minamoto shoguns *1192–1219:* 11 Go-Toba *1186–99;* shogun, Yoritomo *1192–99* 12 Tsuchimikado *1199–1211;* shoguns: Yoriie *1199–1203*, Sanetomo *1203–19*

2 Hojo regents *1205–1333:* 21 Juntoku *1211–22;* regents: Tokimasa *1199–1205*, Yoshitoki *1205–24* 215 Chukyo *1222* 22 Go-Horikawa *1222–33;* shogun, Fujiwara Yoritsune *1219–44;* regent, Yasutoki *1225–42* 225 Shijo *1233–43* 23 Go-Saga *1243–47;* regent, Tsunetoki *1243–46* 24 Go-Fukakusa *1247–66;* shoguns: Fujiwara Yoritsugu *1244–52*, Prince Munetaka *1252–66;* regent, Tokiyori *1246–56* 25 Kameyama *1266–76;* shogun, Prince Koreyasu *1266–89;* regent, Tokimune *1256–84* 255 Go-Uda *1276–88* 26 Fushimi *1288–99;* shogun, Prince Hisaakira *1289–1308;* regent, Sadatoki *1284–1300* 265 Go-Fushimi *1299–1301* 27 Go-Nijo *1301–08;* regent, Morotoki *1300–11* 28 Hanazono *1308–19;* shogun, Prince Morikuni *1308–33* 29 Go-Daigo *1319–39;* shoguns: Prince Moriyoshi *1333–34*, Prince Nariyoshi *1334–38;* regent, Takatoki *1312–33*

.022 Imperial restoration period 1333–93

See also 952.02129

1 Southern dynasty (Yoshino): 2 Go-Murakami *1339–68* 3 Chokei *1368–70* 4 Go-Kameyama *1370–93*

5 Northern dynasty (Kyoto): 6 Kogon *1332–36* 7 Komyo *1336–49;* shogun, Ashikaga Takauji *1335–58* 75 Suko *1349–52* 8 Go-Kogon *1352–72;* shogun, Ashikaga Yoshiakira *1358–67* 9 Go-Enyu *1372–83;* shogun, Ashikaga Yoshimitzu *1367–94* 95 Go-Komatsu *1383–93*

See also 952.0231

952.023 **Muromachi period** **1393–1573**

Ashikaga shoguns. See also 952.0227–95

1 Go-Komatsu *1393–1413* 2 Shoko *1413–29;* shoguns: Yoshimochi *1394–1423, 1425–28;* Yoshikazu *1423–25* 3 Go-Hanazono *1429–65;* shoguns: Yoshinori *1428–41,* Yoshikatsu *1441–49,* Yoshimasa *1449–73* 4 Go-Tsuchimikado *1465–1501;* shoguns: Yoshihisa *1473–89,* Yoshimura *1489–93, 1508–21,* Yoshizumi *1493–1508* 5 Go-Kashiwabara *1501–27* 6 Go-Nara *1527–58;* shoguns: Yoshiharu *1521–45,* Yoshiteru *1545–65* 7 Ogimachi *1558–87;* shoguns: Yoshinaga *1565–68,* Yoshiaki *1568–73*

.024 **Interregnum of shoguns: Military dictatorship Emperor Go-Yozei 1587–1612** **1573–1603**

Military dictators: 1 Oda Nobunaga *1573–82* 2 Toyotomi Hideyoshi *1583–98* (Momoyama period) 3 Hideyori *1598–1600*

.025 **Edo period Tokugawa shoguns** **1603–1868**

1 **Foundation** *1603–51:* For reign of Emperor Go-Yozei, 1587–1612, see 952.024 11 Go-Minoo *1612–30;* shoguns: Ieyasu *1603–5,* Hidetada *1605–24* 12 Myosho, Empress, *1630–44;* shogun, Iemitsu *1624–51* 13 Go-Komyo *1644–55*

2 **Decline** *1651–1837:* 21 Go-Saiin *1655–63* 22 Reigen *1663–87;* shogun, Ietsuna *1651–80* 23 Higashiyama *1687–1710;* shogun, Tsunayoshi *1680–1709* 24 Nakamikado *1710–36;* shoguns: Ienobu *1709–13,* Ietsugu *1713–16,* Yoshimune *1716–45* 25 Sakuramachi *1736–47* 26 Momozono *1747–63;* shogun, Ieshige *1745–61* 27 Go-Sakuramachi *1763–71;* shogun, Ieharu *1761–87* 28 Go-Momozono *1771–80* 29 Kokaku *1780–1817;* shogun, Ienari *1787–1837*

3 **Fall** *1837–68:* 31 Ninko *1817–47;* shogun, Ieyoshi *1837–54* 32 Komei *1847–67;* shoguns: Iesada *1854–57,* Iemochi *1857–66,* Yoshinobu *1866–68.* Visits of Commodore M. C. Perry *1853–54.* Treaty with United States of America *1854*

952.03 Imperial power reestablisht 1868–

.031 **Meiji period Emperor Mutsuhito (1867–1912)** **1868–1912**

3 **Satsuma revolt 1877**

5 **Chino-Japanese war 1894–95**

51 Political history: causes, results

511 Causes

514 Results: terms of peace

515 Relations of special classes to the war

52 Diplomatic history

53 Special campains and battles

54 General military history

55 Naval history

56 Celebrations Anniversaries Commemorations

565 Monuments, memorials etc

567 Rolls of honor Lists of ded

57 Prisons Hospitals Charities

May, if needed, be further subdivided like 940.47

58 Personal narrativs Secret servis Spies

When relating to some special battle or other event clas according to subject

585 Secret servis Spies

59 Illustrativ material

Subdivided like 973.39. For special collections; but most material should be clast with the literature to which it belongs, with the form divisions, poetry, drama etc or with pictures or music

8 **Russo-Japanese war 1904–5**

Subdivided like 952.0315

.032 **Taisho period Emperor Yoshihito** **1912–26**

3–4 **World war 1914–19**

Better clast in 940.3–.4 but if kept here may be subdivided so far as needed like 940.3–.4

.033 **Showa period Emperor Hirohito** **1926–**

Geografic divisions

952.1 Hondo Honshu

.11 North Hondo Ou Tosando

Tosando includes also Shimotsuke (952.1381), Kozuke (952.1385), Mino (952.1611), Hida (952.1615), Shinano (952.163), Omi (952.181)

.111 Oshu Includes also Iwashiro (952.1181) and Iwaki (952.1185)

.112 Aomori, Mutsu .113 Iwate, Rikuchu .114 Miyagi, Rikuzen .115 Ushu, Dewa .116 Akita, Ugo .117 Yamagata, Uzen .118 Fukushima .1181 Iwashiro .1185 Iwaki

.12 Central Hondo

.13 Kwanto Kanto Tokaido

Tokaido includes also Kai (952.165), Suruga (952.1661), Izu (952.1665), Totomi (952.1667), Mikawa (952.1681), Owari (952.1686), Iga (952.1821), Ise (952.1823), Shima (952.1827)

.131 Ibaraki, Hitachi .132 Chiba .1321 Soshu .1323 Shimosa .1325 Kazusa .1327 Awa .133 Kanagawa, Sagami .1331 *Yokohama* .135 Tokyo For Ogasawara see 952.85 .1351 *Tokyo* (city) .1357 Izu-no-shichito .137 Saitama, Musashi .138 Ryomo .1381 Tochigi, Shimotsuke .1385 Gumma, Kozuke

.14 Chubu

.15 Hokurokudo

.151 Niigata .1511 Echigo .1517 Sado .153 Toyama, Etchu .155 Ishikawa .1551 Noto .1555 Kaga .157 Fukui .1571 Echizen .1576 Wakasa

.16 Kwansei

.161 Gifu .1611 Mino .1615 Hida .163 Nagano, Shinano .165 Yamanashi, Kai .166 Shizuoka .1661 Suruga .1663 **Fujisan** .1665 Izu .1667 Totomi .168 Aichi .1681 Mikawa .1686 Owari .1687 *Nagoya*

.17 Southwest Hondo

.18 Kinki

.181 Shiga, Omi **.1815 Lake Biwa** .182 Mie .1821 Iga .1823 Ise .1827 Shima .183 Wakayama, Kii

.185 Gokinai

Includes also Yamashiro (952.1911)

.186 Nara, Yamato .188 Osaka .1881 Kawachi .1884 Izumi .1887 Settsu .1888 *Osaka* (city)

.19 Chugoku

.191 Kyoto .1911 Yamashiro .1912 *Kyoto* (city) .1914 Tanshu Includes also Tajima (952.1932) .1915 Tamba .1918 Tango .193 Hyogo .1931 *Kobe* .1932 Tajima .1935 Harima .1938 Awaji .194 Okayama .1941 Bishu, Kibi Includes also Bingo (952.1971) 1942 Bizen .1944 Bitchu .1947 Mimasaka .195 Tottori .1951 Inaba .1955 Hoki .196 Shimane .1961 Izumo .1964 Oki .1966 Iwami .197 Hiroshima .1971 Bingo .1975 Aki .198 Yamaguchi .1981 Suo .1985 Nagato **.199 Seto-nai-kai** Inland sea

952.2 Kyushu Saikaido

For Okinawa see 952.81

.21 Nagasaki .211 Tsushima .213 Iki .214 Goto .216 *Nagasaki* (city) .22 Hishu .221 Saga, Hizen .225 Kumamoto, Higo .24 Fukuoka .241 Chikugo .245 Chikuzen .25 Oita .251 Buzen .255 Bungo .27 Miyazaki, Hyuga .29 Kagoshima .291 Osumi .295 Satsuma

.3 Shikoku Nankaido

Nankaido includes also Kii (952.183) and Awaji (952.1938)

.31 Kochi, Tosa .34 Tokushima, Awa .36 Kagawa, Sanuki .38 Ehime, Iyo

.4 Hokkaido Yezo

For Karafuto see 952.6, for Chishima see 952.7

.41 Oshima .411 Hakodate .415 Hiyama .42 Shiribeshi .421 *Otaru* .43 Iburi, Muroran .44 Hidaka, Urakawa .45 Ishikari .451 Sapporo .455 Sorachi .46 Tokachi, Kasai .47 Kushiro .475 Nemuro .48 Kitami .481 Abashiri .485 Soya .49 Teshio .491 Kamikawa .495 Rumoe

.6 Karafuto Japanese Saghalien

For Russian Saghalien see 957. Uze 957 for general works on Saghalien

.7 Chishima Kuril ilands

.8 Southern ilands

.81 Ryukyu Liuchiu Okinawa

.85 Ogasawara Bonin ilands

.9 Taiwan Formosa

951.2 may be uzed as general number, also for works on Taiwan before 1895, or, if preferd, all material on Taiwan may be kept together on either number

.91 Taihoku .915 Giran .92 Karenko .94 Taito .947 Botel Tobago ilands, Koto Sho .95 Takao .955 Ako .97 Tainan .975 Kagi .978 Boko, Pescadores .98 Taichu .985 Nanto .99 Shinchiku .995 Toen

953 Arabia

.1 Sinai .2 Hejaz, Mecca .3 Yemen .4 Hadramaut, Mahrah .5 Oman .6 Hasa .7 Dahna .8 Nejd .9 Syrian desert

954 India

.1 Bengal, Orissa, Assam, Bhotan .2 Northwest provinces, Oudh, Nepal .3 Central provinces .4 Rajputana .5 Punjab, Delhi, Lahore .6 Kashmir .7 Bombay, Sind, Baroda .8 Madras, Mysore, Travancore, Ceylon .9 Hyderabad

955 Iran (Persia)

956 Turkey in Asia

Uze as general number for Turkey 1920– For Turkey in Europe and general works on Turkey before 1920 see 949.6

.1 Khodavendigar .2 Aidin, Smyrna .3 Kastamuni, Angora .4 Konieh, Adana, Cyprus .5 Trebizond, Sivas .6 Armenia and Kurdistan: Erzerum; Mamuret el Aziz, Karput; Diarbekr; Bitlis; Van .7 Mesopotamia: Mosûl; Bagdad; Basra .8 Aleppo .9 Syria, Damascus, Phenicia, Palestine

957 Siberia

958 Afghanistan Turkestan Baluchistan

.1 N. E. Afghanistan, Kabul .2 South Afghanistan, Kandahar .3 N. W. Afghanistan, Herat .4 **Turkestan** .5 Kiva .6 Bokhara .7 Ferghana or Khokan .8 **Baluchistan**

959 Farther India

.1 British Burma .2 Burma .3 Thailand (Siam) .4 Laos .5 Lower Siam, Malay peninsula .6 Cambodia .7 French Cochin China .8 Anam .9 Tonkin

960 Africa

SUMMARY

961 North Africa
962 Egypt
963 Abyssinia
964 Morocco
965 Algeria
966 North Central Africa
967 South Central Africa
968 South Africa
969 Madagascar and outlying ilands

961 North Africa

Barbary, i.e. Morocco, Algeria, Tunis, Tripoli

.1 **Tunis** 50,000 sq. mi.

French protectorate 1881

.2 **Tripoli** **Libia Italiana** 406,000 sq. mi.

Annext to Italy 1911

Tripolitania

Oasis of Ghadames, Syrtis

.3 Fezzan 156,000 sq. mi.

Oases of Ghat and Murzuk

.4 Cyrenaica or Barka Bengazi

.9 Libyan desert

Eastern 3d belongs to Egypt

962 Egypt

Egypt proper, including Libyan desert and Sinai peninsula but excluding Sudan, 350,000 sq. mi. Cultivated and settled area, Nile valley and delta, 12,226 sq. mi.

.1 **Lower Egypt** **Masr-el-Bahri** **Delta**

Extends beyond Cairo, about 30° N.

.11 Beheira: Alexandria .12 Gharbîya .13 Daqahlîya: Damietta .14 Menûfîya .15 Sharqîya: Port Said, Ismaila, Suez .16 Qalyûbîya: Cairo, Heliopolis

.2 **Middle Egypt** **el-Wustani** **Vostani**

Extends from Cairo, 30° N., to Assiut, about 27° N.

.21 Gîza: Gizeh, Memphis .23 Faiyûm .25 Beni-Suêf .26 Minya .28 Asyût: Assiut

.3 **Upper Egypt** **es-Said**

Extends from Assiut, 27° N., nearly to Wadi Halfa, 22° N.

.31 Girga .33 Qena: Dendera, Luxor, Karnak, Thebes .36 Aswân: Assuan, Elephantine, First Cataract, Philae

962.4 **Anglo-Egyptian Sudan** 1,014,400 sq. mi.
Extends from 22° to about 5° N. 15 provinces

.41 Nubia Northern provinces
In a broad sense, no strictly defined limits; may be taken to include Nile valley from Assuan, 24° N., to Khartum, 16° N. Here used in more limited sense, including provinces of Halfa, Red Sea and Berber, also 962.5 Dongola

.5 Dongola

.6 Central provinces
Khartum, White Nile, Blue Nile

.7 West provinces
Including Darfur, under nativ rule

.8 Kordofan Nuba mts

.9 East and south provinces
Kassala, Sennar, Upper Nile (formerly Fashoda), Bahr-el-Ghazal, Mongalla (including Lado enclave), Sobat-Pibor

963 Abyssinia Ethiopia 350,000 sq. mi.
Tigre, Amhara, Shoa

.5 **Eritrea** 45,800 sq. mi.
Massaua or Massawah, Assab

964 Morocco French protectorate 231,500 sq. mi.

.1

.2 **Spanish Morocco The Rif**
Cities: Tangier, Ceuta, Tetuan

.3 **Fez and the northwest coast**
Region west of Atlas mts and south to Wâdy Oum-er-Rabia
Cities: Fez, Rabat, Casablanca

.4 **Central region**
Atlas mts: Middle Atlas, Great Atlas, Anti-Atlas

.5 **Southeast region**
Beyond the Atlas mts

.6 **Morocco and southwest coast Marakesh**
Region south of Wâdy Oum-er-Rabia
Cities: Morocco, Mogador, Agadir

.7

.8 **Rio de Oro Adrar Ifni (Spanish)**

.9 **Canary iles (Spanish)**
Geograficly better here than in 946.8
.91 Tenerif .92 Grand Canary .93 Palma .94 Gomera
.95 Hierro or Ferro .96 Fuerteventura .97 Lanzarote

965 Algeria (French) 222,180 sq. mi.
Northern Algeria includes the 3 departments, Oran, Alger, Constantine

.1 **Oran**

.3 **Alger**

.5 **Constantine**

.7 **Southern Algeria**
4 territories: Ain Sefra, Ghardaia, Touggourt, Saharan oases (Tuat, Gurara, Tidikelt)

966 North Central Africa European West Africa

SUMMARY

.1 French West Africa Sahara
.2 Sudan
.3 Senegambia Senegal
.4 Sierra Leone
.5 Upper Guinea
.6 Liberia Ivory Coast
.7 Gold Coast Ashanti
.8 Dahomey Togoland
.9 Nigeria

.1 **French West Africa Sahara**
French West Africa includes colonies: 966.12 Mauritania, 966.2 French Sudan, 966.25 Upper Volta Colony, 966.26 Military Territory of Niger, 966.3 Senegal, 966.52 French Guinea, 966.68 Ivory Coast, 966.8 Dahomey

.11 Sahara (French)
In broad sense all northern Africa from Atlas mts to the Sudan, about 3,500,000 sq. mi. This includes parts of Morocco, Algeria, Tunis and Egypt. French Sahara is estimated at about 1,500,000 sq. mi.

.12 Mauritania 344,967 sq. mi.

.15 El Hodh

.17 Azaouad

.2 **Sudan (French) Upper Senegal-Niger** 617,600 sq. mi.

.21 River Niger

.22 Northwest region
Kaarta, Bakhunu, Sahel

.23 Southwest region
Segu, Kenedugu, Bembas State

.24 Central region
Massina, Timbuktu, Lakes

.25 **Upper Volta** 154,400 sq. mi.
Mossi, Gurma

.26 **Military Territory of Niger** 347,400 sq. mi.

.27 Southwest region
Cheggazar, Immanang

.28 North region
Air or Asben

.3 **Senegambia Senegal (French)** 74,112 sq. mi.
Senegambia, region between rivers Senegal and Gambia and sometimes including French Guinea; name now disused. Senegal now used for northern portion, including Casamance basin; includes both colony and protectorate

.31 North coast region
Walo, St Louis

.32 Central coast region
Cayor, Baol, Sine, Salum, Cape Verde, Dakar, Rufisque, Gorée

.33

.34 South coast
Basin of the Casamance

.35 Central region
Jolof, Ferlo

.36 Northeast region
Fouta, Bondu

.37 Southeast region
Bambuk, River Falemé

966.4 Sierra Leone, colony and protectorate (British) 31,000 sq. mi.

.41 Sierra Leone colony 4000 sq. mi.
North section, north of Sherbro iland Freetown

.42 South section Sherbro iland Turner's peninsula

.43 Protectorate

.44 Karene

.45 Koinadugu

.46 Ronietta

.47 Railway

.48 Southern Sherbro

.5 Upper Guinea
Part north of Gulf of Guinea is known as Upper Guinea; includes broadly: 966.3 Senegal, 966.4 Sierra Leone, 966.5 English, French and Portuguese Guinea, 966.6 Liberia, Ivory Coast, 966.7 Gold Coast, 966.8 Dahomey, Togoland, 966.9 Nigeria

.51 Gambia English Guinea 4130 sq. mi.

.52 French Guinea 95,218 sq. mi.

.53 Coast region Rivières du Sud Konakry

.54 Central region Fouta Jallon
Timbo, Labé, Tuba

.55 Northeast region Sankaran
Dinguiray, Siguiri, Kurussa, Kankan

.56 South region
Kissidugu, Beyla, Bissandugu

.57 Portuguese Guinea 13,940 sq. mi.

.579 Bissagos ilands

.58 Cape Verde ilands

.6 Liberia 40,000 sq. mi. **Grain Coast**
Grain Coast divided between Liberia and 966.4 Sierra Leone

.61 Montserrado
Gondo, Toma, Bouzie, Barlin

.62 Coast region Robertsport, Monrovia

.63 Grand Bassa Gurra, Sapo

.64

.65 Sino Wau, Kru coast

.66

.67 Maryland Cape Palmas

.68 Ivory Coast (French) 121,976 sq. mi.

.681 Coast region Grand Bassam, Assinie, Bingerville

.683 Central region Baule, Bakwe

.685 Northwest hinterland

.687 Northeast hinterland Ganne, Kong

966.7 Gold Coast (British) 80,000 sq. mi.
Areas do not include parts of Togoland assigned by treaty to Great Britain

.71 Gold Coast colony proper 24,200 sq. mi.

.72 Western province Central province

.73 Eastern province

.74 Ashanti 20,000 sq. mi.

.75 Southern province Central province Coomassie

.76 Western province Northern province

.77 Northern territories 35,800 sq. mi.

.78 Southern province
Kintampo district, Gonga district, Salaga

.79 Northwestern province Black Volta district Wa
Northeastern province White Volta district Gambaga

.8 Dahomey (French) 42,460 sq. mi.

.81 Togoland
Former German possession now divided between 966.7 Gold Coast (British) and Dahomey

.82 Lower Dahomey

.83 Coast region Slave Coast
Grand Popo, Kotonu, Porto-Novo

.86 Upper Dahomey

.87 Borgu

.9 Nigeria (British) 332,000 sq. mi.

.91 Southern Nigeria

.92 Western province Yoruba Lagos protectorate
The colony, Abeokuta, Ijebu, Oyo, Ondo

.93 Central province
Benin, Onitsha, Warri, Niger delta, Oil Rivers

.94 Eastern province
Owerri, Ogoja, Kamerun South

.95 Northern Nigeria

.96 West region
Sokoto, Kontagora, Borgu, Nupe, Niger, Ilorin, Kabba

.97 Central region
Kano, Zaria, Nassawara, Munshi, Bassa

.98 East region
Bornu, Bauchi, Yola, Muri, Kamerun North

.99 Ilands of the Gulf of Guinea

.991 Fernando Po (Spanish)

.993 Principe Prince's iland (Portuguese)

.994 São Thomé St Thomas (Portuguese)

.996 Annobon (Spanish)

967 South Central Africa

SUMMARY

.1 Lower Guinea Kamerun
.2 French Equatorial Africa French Kongo **Loango**
.3 Angola Portuguese West Africa
.4 Interior Ubangi-Shari Chad
.5 Belgian Kongo
.6 British East Africa
.7 Somaliland
.8 Zanzibar Tanganyika territory
.9 Mozambique Portuguese East Africa

.1 **Lower Guinea**

Southern or Lower Guinea comprizes coasts of 967.21 Gabun, 967.3 Angola, and may include coast of Kamerun, which occupies a middle position between Upper and Lower Guinea

.11 Kamerun [Cameroon] (French) 166,489 sq. mi.

General number for former German Kamerun, larger portion of which was assignd to France

.12 Coast region Jang, Yabasi, Duala, Edea, Kribi
.13 Southwest region Ebolowa, Wolo Ntem, Ivindo
.14 Southeast region Lomie, Yukaduma
.15 Central region Bamun, Yaunde, Dume
.16 Adamawa Banyo, Ngaundere
.17 Garua Upper Logone
.18 Spanish Guinea Rio Muni
.19 Spanish ilands

Alternativ place for Fernando Po see 966.991, and Annobon see 966.996

.2 **French Equatorial Africa French Kongo Loango**

French Equatorial Africa includes 967.11 Kamerun, and 967.4 Ubangi-Shar and Chad Military Territory

.21 Gabun 121,862 sq. mi.
.22 Coast region Libreville
.23 East region Franceville, Lastourville
.24 Middle Kongo 150,292 sq. mi.
.25 West region

Loango, Bakunyi, Bwenza

.26 South central region

Bacongo, Bjwe, Pool (Brazzaville), Bateke, Alima, Kwiyu

.27 North central region

Mossaka, Bakota, Bokiba, Lower Sanga, Likwala

.28 North region

Benga Motaba, Middle Sanga, Upper Sanga

967.3 **Angola Portuguese West Africa** 484.800 sq. mi.
.31 Kongo Kabinda
.32 Loanda Shinga's country

Guanza-Norte, Guanza-Sul

.33 Benguela
.34
.35 Mossamedes
.36 Lunda
.37 Huila Gambos, Kamba, Mulondo
.38 Cubango
.39 Portuguese ilands

Alternativ place for Principe see 966.993, and São Thomé see 966.994

.4 **Interior**
.41 Ubangi-Shari (French) 208,219 sq. mi.
.42 East region Banda
.43 Chad Military Territory (French) 501,676 sq. mi.
.44 Southwest region Bagirmi
.45 Southeast region Wadai
.46 Central region Lake Chad Kanem
.47 Northeast region Borku
.48 Northwest region Teda or Tibba
.49 North region Tibesti or Tu
.5 **Belgian Kongo Free State Kongo basin** 909,654 sq. mi.
.51 Kongo-Kasai province

Lower Kongo Boma Bakongo Middle Kongo Leopoldville

.52 Kwango Kasai Sankuru
.53 Equator province

Lake Leopold II, Equator

.54 Lulonga Bangala Ubangi
.55 Eastern province

Lower Uele, Upper Uele, Ituri, Stanleyville

.56 Aruwimi Lowa Uregga Maniema Kasongo
.57 Kivu Ruanda Urundi
.58 Katanga province

Lomami, Tanganyika-Moero, Urua

.59 Lulua Upper Luapula

967.6 British East Africa Kenya colony and protectorate

British East Africa includes 967.61 Uganda protectorate, 967.62–.69 Kenya colony and protectorate, 967.81 Zanzibar, 967.82–.89 Tanganyika territory. Clas here general works on whole of British East Africa and those on Kenya colony and protectorate alone

.61 Uganda protectorate 110,300 sq. mi.

.611 Buganda province
Masaka, Mubendi, Mengo, Entebbe, including ilands in Victoria Nyanza

.612 Victoria Nyanza

.613 Western province
Kigezi, Ankoli, Toro

.614 Albert Nyanza

.615 Eastern province
Busoga, Bukedi, Teso, Lango, Lobor, Karamojo

.616 Northern province
Bunyoro, West Nile, Gulu, Chua

.617 Rudolf province
Turkwel, Turkana, Dabossa

.618 Lake Rudolf

.62–.69 Kenya colony and protectorate 246,822 sq. mi.

.62 Nyanza province
North Kavirondo, Nandi, Kusumu, South Kavirondo, Lumbwa

.63 Naivasha province
Southern Masai Reserve, Naivasha (district), Laikipia, Eldama Ravine, Uasin Gishu, Turkana

.64 Kenya province
Nyeri, Meru, Embu, Fort Hall

.65 Ukamba province
Kitui, Kikuyu, Machakos

.66 Seyidie province
Teita, Vanga, Mombasa, Malindi

.67 Tanaland province
Tana River, Lamu

.68 Jubaland province
Afmadu, Kismayu, Serenli

.69 Northern Frontier District
Not yet organized as a province

.7 **Somaliland**

.71 French Somali Coast French East Africa 5790 sq. mi.
Obok, Tajura, Jibuti

.72 British Somaliland protectorate 68,000 sq. mi.

.728 Sokotra iland 1382 sq. mi.

.73 Italian Somaliland 139,430 sq. mi.

.74 Sultanate of the Mijertins

.75 Territory of the Nogal

.76 Sultanate of Obbia

.77 Southern Italian Somaliland (formerly cald Benadir)
Medio Shebeli, Basso Shebeli, Alto Shebeli, Alto Iuba

967.8 Zanzibar Tanganyika territory

.81 Zanzibar 640 sq. mi.

.815 Pemba 380 sq. mi.

.816 Mafia

.82–.89 Tanganyika territory 365,000 sq. mi.
Formerly German East Africa

.82 North coast
Tanga, Wilhelmstal, Pangani

.83 Central coast
Bagamoyo, Morogoro, Dar es Salaam

.84 South coast
Rufiji, Kilwa, Lindi

.85 South or Lake Nyasa region
Songea, Mahenge, Langenburg

.86 South central region
Iringa, Dodoma

.87 North central region
Kondoa-Irangi, Moshi, Arusha

.88 Lake Victoria region
Mwanza, Bukoba

.89 West or Lake Tanganyika region
Tabora, Ujiji, Bismarckburg

.9 Mozambique Portuguese East Africa 428,132 sq. mi.

.91 Nyasa company Companhia do Nyasa Cabo Delgado Querimba

.92

.93 Mozambique (district)

.94 Quilimane or Kilimane Zambezi delta

.95

.96 Tete Zambezi basin

.97 Mozambique company Companhia do Moçambique
Gazaland, Sofala, Manika

.98 Inhambane Hlengaland

.99 Lourenço Marques Delagoa Bay

968 South Africa

General number for Union of South Africa 1909, which includes nearly all area in 968.2–.8, with total area of 473,096 sq. mi.

SUMMARY

.1 Bechuanaland protectorate
.2 Transvaal
.3 Zululand Swaziland Amatonga
.4 Natal
.5 Orange Free State
.6 Basutoland Kaffraria
.7 Cape of Good Hope
.8 Southwest Africa protectorate
.9 Rhodesia Nyasaland protectorate

.1 Bechuanaland protectorate 275,000 sq. mi.

Clas here general works on Bechuanaland, including (with the Protectorate) British Bechuanaland 968.785

.11 Northwest region West Bamangwato
Use also as general number for Bamangwato tribe, which includes 968.11–.14
Ongova, Okavango, Bangai, Batawana

.12 Northeast region East Bamangwato Bashona, Batletli

.13 North section Madenassa

.14 South section Khama's country

.15 Linchwe's country Bakatla tribe

.16 Sebele's country Bakwena tribe
Masarwa, Makalahari

.17 Bathoen's country Bangwaketse tribe

.18 Montsioa's country Barolong tribe

.19 Southwest and west region Kalahari desert
Kalahari desert in broad sense includes all Bechuanaland protectorate and parts of Cape of Good Hope and Southwest Africa protectorate

.2 Transvaal 110,450 sq. mi.

1852 Transvaal State; 1877 annext by Great Britain; 1884 South African Republic; 1900 annext again, Transvaal; 1910 an original province of Union of South Africa

.21 Pretoria (county and city)

.22 Witwatersrand Johannesburg Krugersdorp

.23 South central counties
Heidelberg, Standerton, Bethal

.24 Southeast counties
Wakkerstroom, Piet Retief, Ermelo, Carolina

.25 East counties
Barberton, Lydenburg, Middelburg

.26 Zoutpansberg Pietersburg

.27 Waterberg

.28 Rustenburg Marico

.29 Southwest counties
Lichtenburg, Potchefstroom, Wolmaransstad, Bloemhof

968.3 Zululand Swaziland Amatonga
Zululand annext to Natal 1897. 10,424 sq. mi.

.31 East region
Ndwandwe, Hlabisa, Mahlabatini, Emtonjaneni, Umfolozl

.32 West region
Eshowe, Umlalazi, Mtunzini, Nkandhla, Nqutu

.33

.34 Swaziland 6678 sq. mi.

.35 North region Mountains
Peak, Mbabane

.36 South region
Ubombo, Mankaiana, Hlatikulu

.37 Amatonga
Annext to Zululand 1897

.38 North region
Ingwavuma, Tongaland, Maputa

.39 South region Ubombo

.4 Natal 35,284 sq. mi. (including Zululand 10,424 sq. mi.)

.41 Northern districts
Annext from Transvaal to Natal 1903
Vryheid; Ngotshe, Vryheid (district), Babanango
Utrecht; Paulpietersburg, Utrecht (district)

.42 Klip River division
Newcastle, Dundee, Klip River (district), Umsinga, Helpmakaar, Impofana

.43 Weenen division
Bergville, Upper Tugela, Estcourt, Weenen (district)

.44 Umvoti division
Krantzkop, Umvoti (district), Mapumulo

.45 Pietermaritzburg division
Lions River, Howick, Impendhle, Underberg, Ipolela, Ixopo, New Hanover, Indwedwe, Umgeni, Umkomanzi, Richmond, Camperdown

.46 Victoria; Lower Tugela, Inanda

.47 Durban Umluzi

.48 Alexandra

.49 Alfred; Alfred (district), Lower Umzimkulu

968.5 Orange Free State 50,389 sq. mi.
Orange River Colony 1900–1910

.51 Central region Bloemfontein (county and city)

.52 West region
Fauresmith, Jacobsdal

.53 Northwest region
Boshof, Hoopstad

.54 North region
Kroonstad, Vredefort, Heilbron, Lindley, Frankfort

.55 Northeast region
Vrede, Harrismith, Bethlehem

.56 Upper east region
Senekal, Winburg

.57 Lower east region
Ficksburg, Ladybrand, Thabanchu

.58 Southeast region
Wepener, Rouxville, Smithfield

.59 Southwest region
Edenburg, Bethulie, Philippolis

.6 Basutoland Kaffraria
Kaffraria, east of Kei river; formerly independent nativ kingdom; annext to Cape of Good Hope 1875, and now incorporated as 968.63 Griqualand East, 968.64 Pondoland, 968.65 Tembuland, 968.67 Transkei

.61 Basutoland 11,716 sq. mi.
Drakensberg mts form east boundary

.62

.63 Griqualand East 6602 sq. mi.
Includes most of region formerly cald Noman's-land and afterwards named Adam Kok's Land
.631 Matatiele .632 Mount Currie .633 Umzimkulu .634 Mount Ayliff .635 Mount Frere .636 Mount Fletcher .637 Qumbu .638 Maclear .639 Tsolo

.64 Pondoland 3906 sq. mi.
British protectorate proclaimd 1885, annext to Cape of Good Hope 1894
.641 East Pondoland .642 Bizana .643 Flagstaff .644 Tabankulu .645 Lusikisiki, Umsikaba .646 Port St John's .647 West Pondoland .648 Libode .649 Ngqeleni

.65 Tembuland 3339 sq. mi.
Annext to Cape of Good Hope 1885
.651 Elliot .652 Slang River .653 Xalanga .654 St Mark's .655 Engcobo .656 Umtata **.657 Bomvanaland** .658 Mqanduli .659 Elliotdale

.66

.67 Transkei 2504 sq. mi.
Annext to Cape of Good Hope 1879
.671 Gealeka or Galekaland .672 Willowvale .673 Kentani **.674 Fingoland** .675 Butterworth .676 Idutywa .677 Nqamaqwe .678 Tsomo

968.7 Cape of Good Hope 276,966 sq. mi. Colony proper 208,661 sq. mi.
Founded by Dutch 1652, taken by English 1795, returnd 1803, taken again 1806, formally ceded 1814

.71 Western province
.711 Cape Town (county) .712 Cape Town (city) .713 Simon's Town .714 Wynberg .715 Woodstock .718 Stellenbosch .719 Paarl

.72 Northwest province
.721 Tulbagh .722 Worcester .723 Ceres .724 Malmesbury .725 Piquetberg .726 Clanwilliam .727 Calvinia .728 Van Rhynsdorp .729 Namaqualand

.73 Southwest province
.731 Caledon .732 Bredasdorp .733 Robertson .734 Swellendam .735 Riversdale .736 Ladismith .737 Oudtshoorn .738 Mossel Bay .7385 George .739 Uniondale .7395 Knysna

.74 Midland province
.741 Beaufort West .742 Prince Albert .7425 Laingsburg .743 Aberdeen .7435 Murraysburg .744 Graaff Reinet .745 Fraserburg .7455 Sutherland .746 Victoria West .7465 Carnarvon .747 Kenhardt .7475 Prieska .748 Hopetown .749 Britstown .7495 Richmond

.75 Southeast province
.751 Humansdorp .752 Willowmore .753 Jansenville .7535 Steytlerville .754 Uitenhage .755 Port Elizabeth .756 Alexandria .757 Albany, Grahamstown .758 Bathurst .759 Peddie .7595 Victoria East

.76 Northeast province
.761 Fort Beaufort .7615 Stockenstrom .762 Somerset East .763 Bedford .764 Cradock .765 Tarka .766 Middelburg .7665 Steynsburg .767 Hanover .7675 Philipstown .768 Colesberg .769 Albert .7695 Molteno

.77 Eastern province
.771 Aliwal North .772 Herschel .773 Barkly East .774 Wodehouse .775 Glen Grey .776 Queenstown .777 Cathcart .7775 Stutterheim .778 King William's Town .7785 Komgha .779 East London

.78 Northern section Griqualand
.781 Herbert .782 Kimberly .783 Barkly .784 Hay .785 British Bechuanaland .786 Gordonia .787 Kuruman .7875 Taungs .788 Vryburg .789 Mafeking

.8 Southwest Africa protectorate 322,400 sq. mi.
Formerly German Southwest Africa

.81 Great Namaqualand
.82 Luderitz Land, Luderitz Bay, Angra Pequeña .825 Warmbad .83 Bethany .833 Keetmanshoop .838 Hasuur .84 Gibeon .845 Maltahöhe

.85 Damaraland or Hereroland
.851 Swakopmund .852 Walfish or Walvis Bay .853 Rehoboth .854 Windhoek .855 Gobabis .856 Okahandya .857 Karibib .858 Omaruru

.86 Ovambo or Ovampo-land or Aajamba
.87 Outjo, Kaoko-land .88 Ambo-land .89 Grootfontein

968.9 **Rhodesia** 440,000 sq. mi. Nyasaland protectorate
British South Africa Company charter 1889

.91 Southern Rhodesia 149,000 sq. mi.

.92 Matabele-land
.921 Gwanda (including the former district of Tuli) .922 Bulalima-Mangwe .9228 Tati district .923 Bulawayo .924 Matopo .9245 Umzingwane .925 Insiza .9255 Belingwe .926 Nyamandhlovu .9265 Bubi .927 Gwelo .9275 Selukwe .928 Wankie .929 Sebungwe

.93 Mashonaland
.931 Chibi (formerly Mtibi) .932 Victoria .9323 Ndanga .9327 Melsetter .933 Chilimanzi .9335 Gutu .934 Charter .9345 Umtali .935 Hartley .9355 Marandellas .936 Makoni .9365 Inyanga .937 Salisbury .9374 Mrewa .9377 Mtoko .938 Mazoe .9385 Darwin .939 Lomagundi

.94 Northern Rhodesia 291,000 sq. mi.
Amalgamation of Northeastern and Northwestern Rhodesia 1911

.95 Northwestern Rhodesia
.951 **Barotse or Mabunda** **Monkoya or Mankoya**
.952
.953 **Batoka** **Batonga**
.954
.955 **Kafue** **Mashukulumbwe** **Walonje**
.956 **Kasempa** **Bakwakwa or Bakakwakwa**
.957
.958 **Loangwa**
1 North region Bakonde
5 Walamba
.959 South region Zumbo
1 Aluano
5 Chicunda or Chikunda

.96 Northeastern Rhodesia
.961 **Mwera or Mrewa** **Luapula or Mere-Mere** **Wausi**
Lake Mweru, Moero or Meru Waitawa, Walundi, Wakisinga
.962
.963 **Tanganyika**
Alungu or Ulungu, Amambwe or Mambwe, North Loangwa (a former district which included parts of Tanganyika and Awemba)
.964
.965 **Awemba**
Wasenga, Watwa, Awisa, Lake Bangweulu, Bangweolo or Bemba
.966
.967 **Serenje (formerly West Loangwa)**
.968 **East Loangwa or Luangwa**
Awisa, Achewa or Ackewa, Asenga

.97 Nyasaland protectorate 39,573 sq. mi.
British Central Africa protectorate 1891–1907
.971 North Nyasa .972 West Nyasa .9725 Mombera .973 Marimba .974 Central Angoniland .9741 Lilongwe .9745 Dedza .975 South Nyasa .976 Upper Shire .9765 Livonde .977 West Shire .9775 Zomba .978 Blantyre .9785 Mlanje or Milanji .979 Ruo .9795 Lower Shire

969 Madagascar and ilands of South Indian Ocean

.1 **Madagascar (French)** 228,000 sq. mi.
.2
.3
.4 **Ilands north of Madagascar**
.41 Comoro: Mayotte or Mauté, Anjouan or Johanna, Great Comoro, Moheli or Moali (French)
.42 Aldabra (British)
.43 Cosmoledos (British)
.44 Gloriosa (French)
.45 Providence (British)
.46 Farquhar (British)
.47 Agelaga (British)
.5 **Amirantes or Admiral's (British)**
.6 Seychelles **(British)**
29 ilets: Mahé, Praslin, Silhouette
.7 **Chagos (British)**
Grand Chagos or Diego Garcia, Peros Banhos, Solomon, Danger, Egmont, Three Brothers or Trois Fréres
.8 **Mascarenes and ilands east of Madagascar**
.81 Réunion or Bourbon (French)
.82 Mauritius or Île de France (British)
.83 Rodrigues (British)
.84 Cargados, Garayos, St Brandon or Nazareth (British): Albatross, Cocos, Tromelin
.9 **Isolated ilands**
.91 Amsterdam
.92 Saint Paul
.93 Kerguelen

970 North America

.1 Indians, aborigines .2 Lives of Indians .3 Special tribes .4 Special states .5 Government relation and treatment .6 Special subjects: caracter, civilization, agriculture, etc. May be divided like the whole classification; e.g. 970.6738 Indian pottery. But when a special number is provided elsewhere for a topic relating to Indians, prefer that number; e.g. 371.975 Education of Indians, 572.97 Indian ethnology, 497 Indian languages

971 Canada British America

General works on Canada under British rule
For histories of special periods see 971.01-.054; of special provinces see 971.1-.9
For constitutional history see 342.71

Period divisions

For works not limited to any of the territorial subdivisions .1-.9 but dealing with a limited period
Clas archives with their periods and segregate them if wisht by booknumbers that wil automaticly locate them ahed of other histories having the same clas number: e.g. A1-A9 if Cutter numbers ar used for other works; Aa-Az if Cutter-Sanborn numbers ar used

.01 **French regime 1497-1763**
From earliest time till cession to England

.011 Discovery and early settlement 1497-1632
Early explorations along Atlantic seaboard 1497-1533. Discovery and occupation of St Lawrence 1534-43. Rise of fur trade 1544-1612. Permanent colonization 1613-32

.016 Extension of English rule 1632-1763
Treaty of St Germain-en-Laya 20 Mar. 1632

.018 Struggle with England for supremacy
Peace of Utrecht 1713-Peace of Paris 1763. Seven years war 1755-63; United States cald French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763

.02 **End of 7 years war to Constitutional act 1791**
Conspiracy of Pontiac 1763-64
Quebec act 1774

.024 American revolution United Empire loyalists
Canadian libraries wil clas here United Empire loyalists, but works on the revolution 1775-83 ar better put in 973.3

.03 **1792 to Union act 1841**
See also 971.3 Ontario and 971.4 Quebec

.034 War of 1812
1812-15. In United States cald also 2d war for independence
Better clast in 973.52 (United States history)

.038 Rebellion 1837-38

.039 Union act 10 Feb. 1840
Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.7109

.04 **Union 1841 to Confederation 1867**
Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Clas clergy reservs agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec

.048 Fenian invasions

.049 British North America act, 29 March 1867

.05 **Dominion of Canada 1867-**
Canada under British North America act

.051 Red river (Riel s 1st) rebellion 1870

.054 Northwest (Riel's 2d) rebellion 1885

Geografic divisions

971.1 **British Columbia**

.2 **Northwest Territories**
Including former Hudson Bay territory

.21 **Yukon**
Klondike region Dawson (city)

.22 Mackenzie

.23 **Alberta**

.24 **Saskatchewan**

.26 Keewatin

.27 **Manitoba**

.28 Ungava

.29 Franklin
See also 998 Arctic region

.3 **Ontario**
For St Lawrence river see 971.4
Formerly also Upper Canada or Canada West
See also 971.4 note. Clas here Clergy reservs

.31 **Northwestern**
North shore of Lake Superior and Lake Huron; Georgian bay

.311 Rainy River district
Lake of the Woods Rainy lake

.312 Thunder Bay district
5 *Fort William*

.313 Algoma district
Sault Ste Marie
5 Manitoulin iland

.314 Nipissing district

.315 Parry Sound Maganetawan districts

.316 Muskoka Lake of Bays district

.317 Simcoe

.318 Grey Owen Sound (or Sydenham)

.32 **Western**
East shore of Lake Huron

.321 Bruce

.322 Huron

.323 Perth

.324

.325 Middlesex

.326 *London* (city)

.327 Lambton

.33 **Southwestern**
North shore of Lake Erie

.331 Essex

.332 *Windsor* (city)

.333 Kent

.334 Elgin

.335 *St Thomas* (city)

.336 Norfolk

.337 Haldimand

.338 Welland

971.34 **West central**
.341 Dufferin
.342 Wellington
.343 *Guelph* (city)
.344 Waterloo
.345 *Kitchener* (*Berlin*) (city)
.346 Oxford
.347 Brant
348 *Brantford* (city)
.35 **Southern**
West and North shore of Lake Ontario
.351 Lincoln
St Catherines (city)
.352 Wentworth
Hamilton (city)
.353 Halton Peel
.354 York
1 *Toronto* (city)
.355 Ontario
.356 Durham
.357 Northumberland
.358 Hastings
7 Prince Edward
.359 Lennox and Addington
.36 **Central**
.361 Haliburton
.362
.363
.364 Victoria
.365
.366
.367 Peterborough
.368 *Peterborough* (city)
.369
.37 **Southeastern**
St Lawrence river counties
.371 Frontenac
.372 *Kingston* (city)
.373 Leeds
Rideau lakes and canal
.374 Grenville
.375 Dundas
.376 Stormont
.377 Glengarry
.378
.379
.38 **Northeastern**
Ottawa river counties
.381 Renfrew
.382 Lanark
.383 Carleton
.384 *Ottawa* (city)
.385 Russell
.386 Prescott

971.4 **Quebec St Lawrence river**
Lower Canada or Canada East
From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces wer reunited as the Province of Canada, union in 1867 by the British North America act again divided into the provinces of Ontario and Quebec. Quebec is from Caudebec (Normandy), home of many of its erly settlers.
.41 **Northern**
.411 Mistassini
.412 Abitibi
.414 Lake St John
.416 Chicoutimi
.417 Saguenay Anticosti iland
.419 Ashuanipi
.42 **Western** Ottawa river counties
.421 Pontiac
.422 Ottawa (former county)
1 Wright
2 *Hull* (city)
5 Labelle
.423 Argenteuil
.424 Terre Bonne
.425 Two Mountains
.426 Vaudreuil
5 Soulanges
.427 Laval
.428 Hochelaga
1 *Montreal* (city)
5 Jacques Cartier
.43 **Southwestern** South of the St Lawrence and west of Richelieu river
.431 Huntingdon
.432 Beauharnois
.433 Chateaugay
.434 La Prairie
.435 Napierville
.436 Verchères
.437 Chambly
.438 St Johns
.44 **North central** North of St Lawrence from Montreal to Saguenay river
.441 Montcalm
6 L'Assomption
.442 Joliette
.443 Berthier
.444 Maskinonge
.445 St Maurice
.446 Champlain
6 Portneuf
.447 Quebec
1 *Quebec* (city)
.448 Montmorency
Île d'Orléans
.449 Charlevoix

971.45 **South Central**
Counties south of St Lawrence from Richelieu river to Quebec
.451 Richelieu
.452 St Hyacinthe
5 Bagot
.453 Rouville
.454 Yamaska
.455 Nicolet
.456 Drummond
5 Arthabaska
.457 Wolfe
5 Megantic
.458 Lotbinière
.459 Levis
.46 **Southern**
Southern border from Richelieu river to Lake Megantic
.461 Iberville
.462 Missisquoi
.463 Shefford
.464 Brome
.465 Richmond
.466 Sherbrooke
Sherbrooke (city)
.467 Stanstead
.468 Compton
.469 Lake Megantic
.47 **Southeastern**
Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence
.471 Beauce
.472 Dorchester
.473 Bellechasse
5 Montmagny
.474 L'Islet
.475 Kamouraska
.476 Temiscouata
.477 Rimouski
5 Matane
.478 Bonaventure
.479 Gaspé
7 Magdalen ilands

.5 New Brunswick
.51 **Northern**
.511 Restigouche
.512 Gloucester
.52 **Eastern**
.521 Northumberland
.522 Kent
.523 Westmoreland
Monckton (city)

971.53 **Southern**
.531 Albert
.532 St John
St John (city)
.533 Charlotte
Grand Manan iland
.54 **Central**
.541 Kings
.542 Queens
.543 Sunbury
.55 **Western**
.551 York
Fredericton (city)
.552 Carleton
.553 Victoria
.554 Madawaska

.6 Nova Scotia
.61 **Northern**
.611 Cumberland
.612 Colchester
.613 Pictou
.614 Antigonish
.62 **Southern**
.621 Guysborough
.622 Halifax co. and city
.623 Lunenburg
.624 Queens
.625 Shelburne
.63 **Western**
.631 Yarmouth
.632 Digby
.633 Annapolis
.634 Kings
.635 Hants
.69 Cape Breton (iland)
.691 Inverness
.693 Victoria
.695 Cape Breton
.696 *Sydney* (city)
698 Richmond

.7 Prince Edward Island
.71 Prince
.74 Queens
.75 *Charlottetown* (city)
.77 Kings

.8 Newfoundland

.9 Labrador
For Moravian missions see 266.46

972 Mexico Central America

Period divisions

.01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
.02	Discovery and Spanish rule	1516–1810
.03	Independence	1810–1822
.04	First empire Iturbide 1 Pronunciamientos	1822–1845
.05	War with United States. See also 973.6	1845–1848
.06	Constitution of '57 Reform	1848–1861
.07	French intervention	1861–1867
.08	Later history	1867–

Geografic divisions

.1 Free zone and Northern states
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

.2 Lower California and ilands

.3 Central Pacific states
Sinaloa, Jalisco, Colima, Michoacan

.4 Interior states
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos

.5 Mexico Federal district

.6 Southern Gulf states
Vera Cruz, Tabasco, Campeche, Yucatan

.7 Southern Pacific states
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America

.81 Guatemala
.82 British Honduras Belize
.83 Honduras
.84 Salvador
.85 Nicaragua
.86 Costa Rica

.9 West Indies

.91 Cuba
.92 Jamaica
.93 Santo Domingo
.94 Hayti
.95 Puerto Rico
.96 Bahamas
.97 Leeward ilands
.98 Windward ilands Barbados
.99 Bermudas

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution and confederation	1775—89
.4	Constitutional	1789—1809
.5	Early 19th century	1809—45
.6	Middle 19th century	1845—61
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901
.9	20th century—	1901—

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislativ bodies and annals; 329 Political parties; 353 U. S. government

.1 Discovery —1607

From earliest times to settlement of Jamestown
See also 970.1–.6 American indians; 913.7 American antiquities; 571.91 Mounds and mound bilders; 571.85 Pueblos

.11 Precolumbian
For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .14 below

Arabs
Jews
Africans
Irish
Poles
Germans Martin Behaim
Italians

.12 Chinese

.13 Norse
Gunnbiorn
Eric the Red
Leif Ericson
Bjarni Herjulfson
Thorwald
Thorfinn Karlsefne

.14 Welsh
Prince Madoc

.15 Columbus

.16 Spanish and Portuguese
Dates of voyages are added to names
Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–2 Labrador
Juan Ponce de Leon 1513–21 Florida
Vasco Nuñez de Balbóa 1513 Pacific ocean
Hernando Cortés 1518–40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21 Magellan straits
Francisco Pizarro 1524–41 See also 985 History of Peru
Hernando de Soto 1539–42 Mississippi river
Francisco Vasquez de Coronado 1540–42 New Mexico, Arizona, Colorado

.17 English
John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1576–78
Sir Humphrey Gilbert 1578–83
Sir Walter Ralegh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07

973.18 **French**

Giovanni da Verrazano 1524
Jacques Cartier 1534–44 Canada
Jean Ribault 1562–65 Florida
René de Laudonnière 1564–66 Florida
Samuel de Champlain 1603–35 See also 971.011 History of Canada

.19 **Other nations**

.2 Colonial period 1607–1775

See also histories of separate colonies

.21 **Virginia settlement 1607–20**

Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
Hudson's voyage 1609 See also 974.7 N. Y. history

James 1 1603–25

.22 **New England settlement 1620–43**

Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636–37 Connecticut

Charles 1 1625–49

.23 **New England confederacy 1643–64**

United colonies of New England 19 May 1643

Commonwelth 1649–53
Oliver Cromwell 1653–58
Richard Cromwell 1658–59

.24 **Conquest of New Netherland 1664–89**

King Philip's war 1675–76 Massachusetts
War with eastern Indians 1675–78 Maine
Sir Edmund Andros, governor of New England 1686–89

Charles 2 1660–85
James 2 1685–88

.25 **Early French wars 1689–1732**

Witchcraft in New England See 133.4
King William's war 1689–97
Sometimes cald in Europe 'War of the Palatinate'
Queen Anne's war 1702–13
Known in Europe as War of the Spanish succession

William 3 1689–1702
Anne 1702–14
George 1 1714–27

.26 **Extension of English rule 1732–63**

Settlement of Georgia 1732 See 975.8 Georgia history
King George's war 1744–48
Known in Europe as War of the Austrian succession
Albany convention assembled 19 June 1754
French and Indian war 1755–63
Known in Europe as Seven years war
Braddock's defeat 9 July 1755
Crown Point and Ticonderoga 1758–59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763

George 2 1727–60

.27 **Last years of the colonies 1763–75**

See also specially 973.311 Causes of the Revolution
Conspiracy of Pontiac 1763–64
Bouquet's expedition 1763–64
Lord Dunmore's war Ap.-Oct. 1774 Virginia

George 3 1760–1820

973.3 Revolution and confederation 1775–89

SUMMARY OF 973.3

.31 Political history
.32 Diplomatic history
.33 Special campains and battles
.34 General military history
.35 Naval history
.36 Celebrations
.37 Prisons, hospitals
.38 Personal narrativs
.39 Illustrativ material

.31 **Political history; causes, results**

For financial history see 336.73

.311 Causes

1 Stamp act 1765
2 Navigation acts; mercantil policy
Burning of the Gaspé 17 June 1772
3 Boston massacre 5 Mar. 1770
4 Taxation and representation
5 Tax on tea 1767 Boston tea party 16 Dec. 1773
6 Boston port bill 1774

.312 Political history 1775–83

Continental congress See 328.73 U. S. legislativ bodies

.313 Declaration of independence 4 July 1776 See also 973.361

Mecklenburg declaration 20 May 1775

.314 Loyalists, tories See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution

Clergy and churches
Lawyers
College graduates

.316

.317 Treaty of peace 1783

Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783–89

Shay's rebellion 1786–87 Massachusetts
Cession of western territory to United States

.319

.32 **Diplomatic history; relations with other nations**

Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 **Special campains and battles**

.331 Campains of 1775

1 Lexington and Concord 19 April See also 973.362
2 Bunker Hill 17 June See also 973.366
3 Siege of Boston June 1775-March 1776
4 Ticonderoga 10 May
Crown Point 12 May
5 Canadian expeditions
Montgomery
6 Arnold
7
8 Events in the south

973.332 Campains of 1776
1 Campain for the Hudson
2 Battle of Long Island 27 Aug.
3 British occupation of New York
4 American retreat Sep.–Nov. 1776
Harlem Hights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov.
5 Washington in the Jerseys Dec. 1776–Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's iland 28 June

.333 Campains of 1777
1 Events in Connecticut and Rhode Island
2 Burgoyne's campain
Ticonderoga evacuated 6 July
Hubbardton, Vt 7 July
Bennington, Vt 16 Aug.
3 Freeman's farm or Bemis Hights or Stillwater 19 Sep.
Bemis Hights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2–22 Aug.
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campain
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud iland, or Fort Mifflin 10–16 Nov.
8 Events in south Including Kentucky

.334 Campains of 1778
1 Washington at Valley Forge 1777–78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations See also 973.343
Wyoming valley 1–4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant See also 970.2 Indian biografy
6 Rhode Island campain, August See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778–79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973 335 Campains of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest See 973.3348

.336 Campains of 1780
1 Southern campains
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct.
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion

.337 Campains of 1781
1 Southern campains
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N. C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.

.338 Campains of 1782

.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.303

973.34 **General military history**
.341 English side
.342 Mercenaries; Hessians
.343 Indians
.344 American side
Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers
1
2 New Hampshire
3 Vermont Not then a state, admitted 1791
4 Massachusetts
5 Rhode Island
6 Connecticut
7 New York
8 Pennsylvania
9 New Jersey
.345 Southern states
1 Delaware
2 Maryland
5 Virginia
6 North Carolina
7 South Carolina
8 Georgia
.346 American auxiliaries
.347 French
.348
.349 Special topics
Conway cabal 1777–78
Mutiny of Pennsylvania line Jan. 1781
Newburgh addresses 1782–83
.35 **Naval history**
.351 Events of 1775
Capture of the Margaretta June 12
.352 Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11–13 Oct.
Gen. Benedict Arnold
.353 Events of 1777
Lexington and Alert 20 Sep.
.354 Events of 1778
French fleet at Newport
.355 Events of 1779
Bon Homme Richard and the Serapis 23 Sep.
.356 Events of 1780
Trumbull and Watt 2 June
.357 Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May
.358 Privateers

973.36 **Celebrations, anniversaries, commemorations**
These should usually be clast with the special event commemorated, but some anniversaries ar of such general caracter as to be better clast here
For patriotic societies commemorating the revolution see 369.13
.361 Fourth of July See also 973.313
.362 19th of April See also 973.3311
.363 Evacuation day, New York See also 973.339
.364
.365 Monuments, memorials See also 718
.366 Bunker Hill monument See also 973.3312
.367 Washington's various hedquarters
Newburgh, N. Y.
Morristown, N. J.
.37 **Prisons, hospitals, etc.**
.371 English prisons
1 Jersey prison ship
2 Sugar house prison
.372 American prisons
.373 Exchange of prisoners
.374
.375 Medical dep't; surgeons, nurses, etc.
.376 Hospitals
.377
.378
.379
.38 **Personal narrativs, vindications, secret servis**
.381 Treason and traitors See also 973.314 Loyalists, tories
.382 Benedict Arnold
.383 Charles Lee
.384
.385 Secret servis, spies
American side: Nathan Hale
.386 British side: Major John André
.39 **Illustrativ material**
These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here
.391 Poetry
.392 Drama
.393 Fiction
.394 Addresses
.395 Sermons
.396 Humor
.397 Pictures
Paintings, drawings, caricatures, engravings, fotografs, sculpture
.398 Music
.399 **Maps**

973.4 Constitutional period **1789-1809**

See 342.73 U. S. constitution; 329.1 Federal party 1789-1823; 329.2 Antifederal party 1789-92

.41 George Washington **30 Ap. 1789-4 Mar. 1797**

Born 22 Feb. 1732; died 14 Dec. 1799

Sworn into offis 30 Ap. 1789

National bank establisht 25 Feb. 1791 See 332.11

Vermont admitted, 14th state 4 Mar. 1791 See 974.3

Kentucky admitted, 15th state 1 June 1792 See 976.9

.42 Indian wars

Harmar's expedition 1790

St Clair's expedition 1791

.43 Washington's 2d term 4 Mar. 1793-4 Mar. 1797

Neutrality proclamation 22 Ap. 1793 See also 341.3

Whisky insurrection July-Nov. 1794

Wayne's expedition, Oct.-Nov. 1794, and treaty, 3 Aug. 1795

Jay's treaty 28 Oct. 1795 See also 341.2

Treaty with Spain 27 Oct. 1795 See also 341.2

Tennessee admitted, 16th state 1 June 1796 See 976.8

.44 John Adams **4 Mar. 1797-4 Mar. 1801**

Born 31 Oct. 1735; died 4 July 1826

Alien act 25 June 1798 See 341.5

Sedition act 14 July 1798 See 323

Removal of capitol to Washington

.45 Troubles with France

Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 Thomas Jefferson **4 Mar. 1801-4 Mar. 1809**

Born 2 Ap. 1743; died 4 July 1826

Ohio admitted, 17th state 19 Feb. 1803 See 977.1

Purchase of Louisiana 2 May 1803

.47 Wars with Barbary states

.48 Jefferson's second term 4 Mar. 1805-4 Mar. 1809

Aaron Burr's conspiracy 1806

See also 923.273 lives of Burr; and 343.1 Trials

Embargo act 22 Dec. 1807

.5 Early 19th century **1809-45**

.51 James Madison **4 Mar. 1809-4 Mar. 1817**

Born 16 Mar. 1751; died 28 June 1836

Engagement between ships President and Little Belt 16 May 1811

Defeat of Indians by Gen. Harrison at Tippecanoe 7 Nov. 1811

Louisiana admitted, 18th state 30 Ap. 1812. See 976.3

Indiana admitted, 19th state 11 Dec. 1816 See 977.2

973.52 War of 1812

War declared 18 June 1812. Treaty of peace 24 Dec. 1814

.521 Political history; causes, results

Hartford convention

.522 Diplomatic history

.523 Special campains and battles

1 Campain in northwest

Includes all west of New York

Surrender of Detroit 16 Aug. 1812

2 Events in northwest 1813-14

3 Campain in New York, New England and Canada

Battle of Queenstown 13 Oct. 1812

4 Events in New York and New England 1813

Capture of Fort Niagara 19 Dec.

5 Events in Canada 1813

Capture of Fort George 27 May

Battle of Thames 5 Oct.

6 Events in New York and New England 1814

Bombardment of Stonington, Conn. 9-12 Aug.

7 Events in Canada 1814

Capture of Fort Eric 3 July

Battle of Chippewa 5 July

Battle of Lundy's lane 25 July

8 Campain in the south

Battle of Bladensburg 24 Aug. 1814

Burning of Washington 24 Aug. 1814

Bombardment of Fort McHenry 13 Sep. 1814

9 Events in Louisiana

Battle of New Orleans 22 Dec. 1814-8 Jan. 1815

.524 General military history

1 English side

2 Indian allies

3

4 American side in general

Divided like 974. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of soldiers

5 South Atlantic states

Divided like 975

6 Gulf states

Divided like 976

7 Lake states

Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprise and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 28 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.36
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons Dartmoor
.528 Personal narrativs, vindications, secret servis
.529 Illustrativ material Divided like 973.39
.53 Algerine war
.54 James Monroe **4 Mar. 1817–4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state 10 Dec. 1817 See 976.2
Illinois admitted, 21st state 3 Dec. 1818 See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state 14 Dec. 1819 See 976.1
Maine admitted, 23d state, 15 Mar. 1820 See 974.1
Missouri compromise See 326.973 and 973.7113
Missouri admitted, 24th state 10 Aug. 1821 See 977.8
Monroe doctrin Dec. 1823 See 327.73
Tariff act 22 May 1824 See 337
.541 First Seminole war 1818
.55 John Quincy Adams **4 Mar. 1825–4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825 See 386
Panama congress 1826 See 341.1
Removal of Creek Indians 1825–29 See 970.3
Tariff act 19 May 1828 See 339

973.56 Andrew Jackson **4 Mar. 1829–4 Mar. 1837**
Born 15 Mar. 1767; died 8 June 1845
Rotation in offis See 351.6
United States bank See 332.11
Whig party See 329.4
Compromise tariff act 3 Mar. 1833 See 337
Independence of Texas 2 Mar. 1836 See 976.4
Arkansas admitted, 25th state 15 June 1836 See 976.7
Specie circular 11 July 1836 See 336.73
Michigan admitted, 26th state 26 Jan. 1837 See 977.4
.561 Nullification See also 342.73
Webster and Hayne debate 25–27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
.562 Black Hawk war 1832
.57 Martin Van Buren **4 Mar. 1837–4 Mar. 1841**
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837 See 332
Alton riot 7 Nov. 1837 See 326.973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war Feb.–Mar. 1839
Amistad case 1839
.571 Second Seminole war 1835–42
.58 William Henry Harrison **4 Mar. 1841–4 Ap. 1841**
Born 9 Feb. 1773; died 4 Ap. 1841
John Tyler **4 Ap. 1841–4 Mar. 1845**
Born 29 Mar. 1790; died 18 Jan. 1862
Dorr's rebellion May–June 1842 See 974.5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state 3 Mar. 1845 See 975.9

.6 Middle 19th century 1845–61

.61 James Knox Polk **4 Mar. 1845–4 Mar. 1849**
Born 2 Nov. 1795; died 15 June 1849
Texas annext, 28th state 29 Dec. 1845 See 976.4
Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113
Iowa admitted, 29th state 28 Dec. 1846 See 977.7
Wisconsin admitted, 30th state 29 May 1848 See 977.5
Free soil party; Buffalo convention Aug. 1848 See 329.6
.611 Northwest boundary; Oregon; treaty with England 12 June 1849
.62 Mexican war 1845–48
War declared 13 May 1846; treaty of peace 30 May 1848
.621 Political history; causes, results
Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
.622 Diplomatic history
.623 Special campains and battles
1 Kearny in New Mexico
2 Fremont in California
3 Taylor's campain
4 On the Rio Grande
Palo Alto 8 May 1846
Resaca de la Palma 9 May
Matamoras 18 May
5 In Mexico
Monterey 20–25 Sep. 1846
Buena Vista 22–23 Feb. 1847

973.623 6 Scott's campain
7 Vera Cruz 22–29 Mar. 1847
Cerro Gordo 17–18 Ap.
8 Battles near Mexico
Contreras 19–20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12–13 Sep.
Mexico 14 Sep.
.624 General military history
.625 Naval history
.626 War meetings, celebrations, anniversaries
See note under 973.36; also 369.145 Aztec club of 1847
.627 Prisons, hospitals, etc.
.628 Personal narrativs
.629 Illustrativ material See note under 973.39
.63 **Zachary Taylor** **5 Mar. 1849–9 July 1850**
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bil, introduced by Henry Clay 29 Jan. 1850 See also 326.973 and 973.7113
.64 **Millard Fillmore** **9 July 1850–4 Mar. 1853**
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850 See also 386
California admitted, 31st state 9 Sep. 1850 See 979.4
Fugitiv slave law 18 Sep. 1850 See 326.973
Popular soverenty, or squatter soverenty See 342.73 and 326.973
Filibustering expeditions to Cuba 1849–51 See 972.91
.65
.66 **Franklin Pierce** **4 Mar. 1853–4 Mar. 1857**
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party See also 329.5
Republican party See also 329.6
Com. Perry's expedition to Japan 1852–54 See also 952.02532 and 1341.273
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bil 30 May 1854 See also 326.973, 978.1 and 978.2
Ostend manifesto 18 Oct. 1854 See also 972.91
Walker's filibuster expedition against Nicaragua 1855 See also 972.85
.67
.68 **James Buchanan** **4 Mar. 1857–4 Mar. 1861**
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857 See also 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857
See also 978.1
Minnesota admitted, 32d state 11 May 1858 See 977.6
Oregon admitted, 33d state 14 Feb. 1859 See 979.5
John Brown's raid 16–17 Oct. 1859 See also 973.7116 and 326.973
Kansas admitted, 34th state 29 Jan. 1861 See 978.1
.69

973.7 Civil war **War of secession** **4 Mar. 1861—15 Ap. 1865**

SUMMARY OF 973.7

.71 Political history
.72 Diplomatic history
.73 Special campains and battles
.74 General military history
.75 Naval history
.76 Celebrations
.77 Prisons, hospitals
.78 Personal narrativs
.79 Illustrativ material

Abraham Lincoln **4 Mar. 1861—15 Ap. 1865**
Born 12 Feb. 1809; died 15 Ap. 1865
1st term 4 Mar. 1861–4 Mar. 1865; 2d term 4 Mar. 1865–15 Ap. 1865
.71 **Political history; causes, results**
West Virginia admitted, 35th state 19 June 1863 See 975.4
Nevada admitted, 36th state 31 Oct. 1864 See 979.3
.711 Causes
1 Slavery See also 326
2 Extension of slavery
Annexation of territory
Slavery in the territories
3 Compromises
Missouri compromise 1820 See also 973.54
Wilmot proviso 1846 See also 973.61
Compromise of 1850 See also 973.63
4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks 22 May 1856
5 Fugitiv slaves
Underground railway
Dred Scott case See also 973.68
6 John Brown's raid See also 973.68
7 States' rights
8 Tarif See also 337
.712 Efforts to preserv peace
Crittenden compromise introduced 18 Dec. 1860
Peace conference 4–27 Feb. 1861
.713 Secession action in **various states**
South Carolina 20 Dec. 1860
Mississippi 9 Jan. 1861
Florida 10 Jan.
Alabama 11 Jan.
Georgia 19 Jan.
Louisiana 26 Jan.
Texas 1 Feb.
Confederate States of America formd 4 Feb.
Virginia 17 Ap.
Arkansas 6 May
North Carolina 20 May
Tennessee 8 June
For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328
.714 Results of the civil war
Emancipation proclamation 1 Jan. 1863 See also 326.8
Freedmen's bureau See 361
For the present condition of negro, see 325.26
For negro colony in Liberia, Africa, see 325.6; history of Liberia 966.6

973.715 Relations of special classes to the civil war
Clergy and churches. Colleges, students and graduates
.716 Southern side
.717 Unionists in the south
.718 Secessionists in the north
.72 Diplomatic history: relations with other nations
Divided like 940; e. g. 973.722 Relations with England, 973.727 Russia
.721 Diplomatic history of Confederate States
Divided like 940; e. g. 973.7214 Relations of Confederate States with France
.73 Special campains and battles
General arrangement of topics is based on *Official records of the Union and Confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
.731 Campain of 1861
1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861
Bombardment of Fort Sumter 12-14 April
2 Operations in other southern states (see *Official records*, v. 1)
3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
Riot at Baltimore, Md. 19 April
Engagement at Big Bethel, or Bethel Church, Va. 10 June
4 Battle of Bull Run, or Manassas, Va. 21 July
5 Missouri, Arkansas, Kansas, Indian Territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
Kentucky, Tennessee 1 July-19 Nov.
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
8 Engagement at Ball's Bluff, Va. 21 Oct.
Action near Edwards Ferry, Va. 22 Oct.
9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
.732 Campain of 1862
1 West Florida, southern Alabama, southern Mississippi, Louisiana 1 Sep. 1861–12 May 1862
Capture of New Orleans, La. 18 Ap.-1 May
2 Kentucky, Tennessee, north Alabama, southwest Virginia 19 Nov. 1861-4 March 1862
Capture of Fort Henry, Tenn. 6 Feb.
Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861–10 Ap. 1862
Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
4 Southeastern Virginia 11 Jan.-17 Mar.
Battle of Merrimac and Monitor See 973.752
North Carolina 11 Jan.-20 Aug.
Burnside expedition
Battle of Roanoke iland, N. C. 8 Feb.
Texas, New Mexico, Arizona 1 Feb.-20 Sep.
5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
Siege of Corinth, Miss. 29 Ap.-10 June
6 Battle of Pittsburg Landing or Shiloh, Tenn. 6-7 Ap.

973.732 Campain of 1862 *continued*
7 Peninsular campain, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run, or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W. 10 Ap.-20 Nov.
.733 Campain of 1862 *concluded*
1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863
2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863
3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June–31 Oct.
4 West Tennessee, northern Mississippi 10 June–20 Jan. 1863
Battle of Corinth, Miss. 3–4 Oct.
5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.–14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16–17 Sep.
7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.–20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863
8 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.–25 Jan. 1863
9 Battle of Fredericksburg, Va. 11–15 Dec.
.734 Campain of 1863
1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest 20 Nov. 1862–31 Dec. 1863
2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.–10 Aug.
Middle Tennessee, or Tullahoma campain 23 June–7 July
Morgan's Ohio raid 2–26 July
3 Mississippi, west Tennessee 20 Jan.–10 Aug.
4 Siege of Vicksburg, Miss. 19 May–4 July
5 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.–3 June
6 Chancellorsville, Va. campain 27 Ap.–6 May
7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May–31 Dec.
Siege of Port Hudson, La. 21 May–8 July
8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania Dep't of East 3 June–3 Aug.
9 Battle of Gettysburg, Pa. 1–3 July

973.735 Campain of 1863 *concluded*
1 South Carolina, Georgia, middle and east Florida 12 June–31 Dec.
Operations on Morris iland, S. C. 10 July–7 Sep.
Occupation of Battery Wagner, S. C. 6–7 Sep.
Bombardment of Fort Sumter, S. C. 17 Aug.–31 Dec.
Bombardment of Charleston, S. C. 21 Aug.–31 Dec.
3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
Bristoe, Va. campain 9–22 Oct.
Mine Run, Va. campain 26 Nov.–2 Dec.
4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.–19 Oct.
5 Chickamauga, Ga. campain 16 Aug.–22 Sep.
Battle of Chickamauga, Ga. 19–20 Sep.
6 East Tennessee campain 16 Aug.–19 Oct.
7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.–31 Dec.
8 Knoxville, Tenn. campain 4 Nov.–23 Dec.
Siege of Knoxville, Tenn. 17 Nov.–4 Dec.
9 Chattanooga-Ringgold campain 23–27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.
.736 Campain of 1864
1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama· north Georgia 1 Jan.–30 Ap.
Meridian, Miss. expedition 3 Feb.–6 Mar.
Forrest's expedition into west Tennessee and Kentucky 16 Mar.–14 Ap.
Capture of Fort Pillow, Tenn. 12 Ap.
2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.–30 Ap.
Expedition against New Berne, N. C. 28 Jan.–10 Feb.
Engagement at Morton's Ford, Va. 6–7 Feb.
Kilpatrick's expedition against Richmond, Va. 28 Feb.–4 Mar.
3 Louisiana, trans-Mississippi 1 Jan.–30 June
Red river, La. campain 10 Mar.–22 May
Camden, Ark. expedition 23 Mar.–3 May
4 South Carolina, Florida, Georgia coast 1 Jan.–13 Nov.
Charleston, S. C. harbor and vicinity
Florida expedition 5–22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
5 Southeastern Virginia, North Carolina 1 May–12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12–16 May
Operations on the Bermuda Hundred, Va. front 17 May–2 June
Engagement at Petersburg, Va. 9 June
6 Battle of the Wilderness, Va. 5–7 May
7 Operations about Spottsylvania Court-House, Va. 8–21 May
8 Operations at and about Cold Harbor, Va. 31 May–12 June
9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May–3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campain 26 May–29 June
Battle of the Monocacy, Md. 9 July
Action near Fort Stevens, D. C. 12 July

973.737 Campain of 1864 *concluded*
1 Northern Georgia 1 May–8 Sep.
Atlanta, Ga. campain
Battle of Atlanta, Ga. 22 July
2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May–13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14–15 July
Operations in Mobile bay, Ala. 2–23 Aug. See 973.754
Engagement at Allatoona, Ga. 5 Oct.
3 Southeastern Virginia, North Carolina 13 June–31 July
Richmond, Va. campain
Assaults on the Petersburg lines 15–18 June
Explosion of the mine and assault on the crater 30 July
4 Louisiana, trans-Mississippi 1 July–31 Dec.
Price's Missouri expedition 29 Aug.–2 Dec.
5 Southeastern Virginia, North Carolina 1 Aug.–31 Dec.
Richmond, Va. campain
Expedition to Fort Fisher, N. C. 7–27 Dec.
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
7 Shenandoah valley campain, Va. 7 Aug.–28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.
8 South Carolina, Georgia, Florida 14 Nov.–31 Dec.
Savannah, Ga. campain, or Sherman's march to the sea 15 Nov.–21 Dec.
9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 14 Nov.–23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15–16 Dec.
.738 Campain of 1865
1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.–30 June
2 Richmond, Va. campain 1 Jan.–3 Ap.
3 Expedition to and capture of Fort Fisher, N. C. 3–17 Jan.
4 Appomattox, Va. campain 29 Mar.–9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.
5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.–30 June
Campain of the Carolinas 1 Jan.–26 Ap.
6 Louisiana, trans-Mississippi 1 Jan.–30 June
7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.–30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.–24 Ap.
8 Mobile, Ala. campain 17 Mar.–4 May
9 Pacific coast 1 Jan. 1861–30 June 1865

973.74 **General military history**
.741 Northern side
1 Regular army
2 Volunteers, quotas
3 Bounties
4 Drafts
5 Negro troops
6 Special armies or corps
Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.
7 Special branches or servises
Cavalry
Artillery
Engineers
Signal servis
Guerrillas
Commissariat
8 General orders
9 Regimental losses
.742 Southern side
Guerrillas
.743 Foren elements
Divided like 940
.744–.749 Separate states and regimental histories
Divided like 974–979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers
A for official publications
A 1 Adjutant-general's reports
A 2 Lists of soldiers
B–D, General works on the part taken by the state in the conflict
B whole state, C county, D town
E Histories of cavalry regiments
F Hevy artillery
G Light artillery
J–L Infantry
J regiments 1–99
K regiments 100–199
L regiments 200–299
The individual regiment is markt by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments in any of these groups 0 must be prefixt to the number for the 1st 9, e. g. J09, 9th regiment of infantry; otherwise the 9th regiment of infantry, J9, would be shelvd after the 89th, J89
For the border states which also had regiments on the Confederate side use similarly P–S
O Special brigades
P Cavalry
Q Hevy artillery
R Light artillery
S Infantry
For those states which past ordinances of secession (see list under 973.713) reverse these numbers using E–L for Confederate regiments and P–S for Union regiments
Special numbers must be arranged for unnumberd and peculiarly numberd regiments and companies

973.75 **Naval history**
During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campains and battles 973.73 and its subdivisions
.751 Events of 1861
Hatteras inlet, N. C. 28 Aug. See also 973.7316
Port Royal, S. C. 7 Nov. See also 973.7319
Belmont, Mo. 7 Nov. See also 973.7315
Trent affair 8 Nov. See also 973.722
.752 Events of 1862
Fort Henry, Tenn. 6 Feb. See also 973.7322
Roanoke iland, N. C. 7–8 Feb. See also 973.7324
Fort Donelson, Tenn. 14 Feb. See also 973.7322
Monitor and Merrimac 8–9 Mar.
Island nr 10, Ky. 16 Mar.–8 Ap. See also 973.7325
New Orleans, La. 18 Ap.–1 May See also 973.7321
Memphis, Tenn. 6 June See also 973.7325
.753 Events of 1863
Charleston, S. C. 7 Ap. See also 973.7331
Vicksburg, Miss. 16 Ap. See also 973.7343
Grand Gulf, Miss. 29 Ap. See also 973.7343
.754 Events of 1864
Red river, La. expedition 10 Mar.–22 May See also 973.7363
Sassacus and Albemarle, Albemarle sound, N. C. 5 May
See also 973.7365
Alabama and Kearsarge, off Cherbourg, France 19 June
Mobile bay, Ala. 5–22 Aug. See also 973.7372
Fort Fisher, N. C. 24 Dec. See also 973.7375
.755 Events of 1865
Fort Fisher, N. C. 14–15 Jan. See also 973.7383
.756 History of special squadrons or ships
Atlantic squadron
Gulf squadron
.757 Confederate navy
Including the history of special squadrons or ships
Alabama
Shenandoah
Florida
.758 Blockade and blockade running
.759 Privateers
.76 **War meetings, celebrations, anniversaries, commemorations**
See note under 973.36
For patriotic societies commemorating the civil war see 369.15–.17
.761 War meetings
.762
.763 Flags; presentations of flags; Battle-flag day
.764
.765 Monuments, memorials See also 718
.766
.767 Rolls of honor Lists of ded For national cemeteries, see 718.8
.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**
.771 Southern prisons, prison life
1 Andersonville
2 Libby prison
.772 Northern prisons
.773 Exchange of prisoners, paroles
.774
.775 Medical dep't, surgeons, nurses For military surgery see 617.99
.776 Hospitals, hospital sketches
.777 Charities
For Soldiers homes, see 362.8
Soldiers orphan asylums, see 362.75
Freedmen's bureau, see 361.3
Pensions, see 351.5
1 U. S. sanitary commission
2 Sanitary fairs
.778 Religious life, chaplains, revivals
1 U. S. Christian commission See also 267.11
.78 Personal narrativs, vindication, secret servis
Personal narrativs when relating to some special battle or event should be clast according to their subject
.781 Personal narrativs, northern side
Including volumes of G. A. R. papers and Loyal legion
.782 Personal narrativs, southern side
.783 Army life
.784 Southern army life, southern home life
.785 Secret servis, spies
.786 Southern side
.79 Illustrativ material
See note under 973.39
.791 Poetry
.792 Drama
.793 Fiction
.794 Addresses
.795 Sermons
.796 Humor
.797 Pictures
Paintings, drawings, caricatures, engravings, fotografs, sculpture
.798 Music
.799 Maps
.8 Later 19th century **1865–1901**
Period of reconstruction and civil servis reform
.81 Andrew Johnson **15 Ap. 1865–4 Mar. 1869**
Born 29 Dec. 1808; died 31 July 1875
13th amendment abolishing slavery, adopted 18 Dec. 1865
See also 326.8 and 342.739
Fenian invasion of Canada 31 May–2 June 1866 See also 971.048
Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
Cession of Alaska by Russia 20 June 1867
Impeachment of Pres. Johnson Mar.–May 1868 See 351.99
14th amendment guaranteeing citizenship, adopted 28 July 1868
See 342.739

973.82 Ulysses Simpson Grant **4 Mar. 1869–4 Mar 1877**
Born 27 Ap. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signd 29 Nov. 1869; rejected by senate 30 June 1870 See also 972.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870
See 324.15 and 342.739
First provision for civil servis reform 3 Mar. 1871 See also 351.6
Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator 23 Oct. 1872
Crédit mobilier investigation Dec. 1872–Feb. 1873
Coinage act 12 Feb. 1873 See 332.47
Modoc war, California Nov. 1872–June 1873
Financial panic 19–30 Sep. 1873 See 332
Virginius incident Oct.–Dec. 1873
Whisky ring 1872–75 See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state 1 Aug. 1876 See 978.8
Centennial exposition, Philadelphia 10 May–10 Nov. 1876 See 606
Electoral commission Feb. 1877
.83 Rutherford Birchard Hayes **4 Mar. 1877–4 Mar. 1881**
Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878 See 332.47
Resumption of specie payment 1 Jan. 1879 See 332.52 and 336.73
.84 James Abram Garfield **4 Mar. 1881–19 Sep. 1881**
Born 19 Nov. 1831; died 19 Sep. 1881
Chester Alan Arthur **19 Sep. 1881–4 Mar. 1885**
Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.–31 Dec. 1881 See 606
Edmund act to suppress poligamy 22 Mar. 1882 See also 289.3
Pendleton civil servis reform act 11 Jan. 1883 See 351.6
.85 Grover Cleveland **4 Mar. 1885–4 Mar. 1889**
Born 18 Mar. 1837; died 24 June 1908
Act regulating the presidential succession 19 Jan. 1886 See 353.03
Mexican war pension act 29 Jan. 1887 See 351.5
Act creating Interstate commerce commission 4 Feb. 1887 See 385
Dependent pension bil vetoed 11 Feb. 1887 See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15–17 Sep. 1887
Act to establish the Labor dep't 13 June 1888 See 331.06173
Fisheries treaty, signd 15 Feb. 1888; rejected by senate 21 Aug. 1888
See 333.91 and 341.273
Act to make Agriculture dep't an executiv dep't 9 Feb. 1889
See also 630.6173 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889–4 Mar. 1893**
Born 20 Aug. 1833; died 13 Mar. 1901
Opening of Oklahoma 2 Ap. 1889 See 976.6
North Dakota admitted, 39th state 2 Nov. 1889 See 978.4
South Dakota admitted, 40th state 2 Nov. 1889 See 978.3
Montana admitted, 41st state 8 Nov. 1889 See 978.6
Washington admitted, 42d state 11 Nov. 1889 See 979.7
International Amer. conference 2 Oct. 1889–19 Ap. 1890 See 341.1
Idaho admitted, 43d state 3 July 1890 See 979.6
Wyoming admitted, 44th state 10 July 1890 See 978.7
Sherman silver act, repealing silver act of 1878 14 July 1890
See 332.47
McKinley tarif act 1 Oct. 1890 See 337
Controversy with Chile Oct. 1891–July 1892 See 983
Geary Chinese exclusion act 5 May 1892 See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate, 15 Feb. 1893; withdrawn, 9 Mar. 1893 See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893–4 Mar. 1897**
World's Columbian exposition, Chicago 1 May–30 Oct. 1893
See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893 See 332.47
Wilson tarif act 27 Aug. 1894 See 337
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895 See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896 See 987
Utah admitted, 45th state 4 Jan. 1896 See 979.2

.88 **William McKinley** **4 Mar. 1897–14 Sep. 1901**
Born 29 Jan. 1844; died 14 Sep. 1901
Dingley tarif act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signd 12 Aug. 1898
Treaty of peace signd at Paris, 10 Dec. 1898; ratified, 11 Apr. 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Acquisition of Philippines and Puerto Rico

.892 Diplomatic history

.893 Special campains and battles
Siege of Santiago 22 June–17 July 1898
Battle of El Caney 1 July 1898

.894 General military history May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries
See note under 973.36
For patriotic societies commemorating the war with Spain see 369.181–.183

.897 Prisons, hospitals, etc.

.898 Personal narrativs

.899 Illustrativ material
See note under 973.39

973.9 20th century– 1901–

.91 **Erly 20th century** **1901–**

.911 **Theodore Roosevelt** **14 Sep. 1901–4 Mar. 1909**
Born 27 Oct. 1858; died 6 Jan. 1919
Oklahoma admitted, 46th state 16 Nov. 1907 See 976.6

.912 **William Howard Taft** **4 Mar. 1909–4 Mar. 1913**
Born 15 Sep. 1857; died 8 Mar. 1930
New Mexico admitted, 47th state 6 Jan. 1912 See 978.9
Arizona admitted, 48th state 14 Feb. 1912 See 979.1
16th amendment, authorizing income taxes, adopted 25 Feb. 1913

.913 **Woodrow Wilson** **4 Mar. 1913–4 Mar. 1921**
Born 28 Dec. 1856; died 3 Feb. 1924
The World war, begun with Austria's declaration of war against Serbia, 28 July 1914, was formally enterd by United States with a declaration of war against Germany, 6 Ap. 1917; armistice signd by the Germans 11 Nov. 1918; treaty of Versailles signd by treaty plenipotentiaries of Germany and the Allied Powers 28 June 1919; treaties with Germany, Austria and Hungary ratified by United States senate 18 Oct. 1921.
17th amendment; authorizing election of U S senators by direct popular vote, adopted 31 May 1913
Federal trade commission act 5 Aug. 1914
Panama canal opend 15 Aug. 1914
Danish West Indies bought 17 Jan. 1917
18th amendment (liquor prohibition) adopted 29 Jan. 1919
19th amendment; authorizing woman suffrage, adopted 18 Aug. 1920

.914 **Warren Gamaliel Harding** **4 Mar. 1921–2 Aug. 1923**
Born 2 Nov. 1865; died 2 Aug. 1923
Immigration act 19 Aug. 1921
Washington conference 12 Nov. 1921–6 Feb. 1922

.915 **Calvin Coolidge** **2 Aug. 1923–4 Mar. 1929**
Born 4 July 1872; died 5 Jan. 1933
Dawes commission 1924

.916 **Herbert Clark Hoover** **4 Mar. 1929–4 Mar. 1933**
Born 10 Aug. 1874

.917 **Franklin Delano Roosevelt** **4 Mar. 1933–**
Born 30 Jan. 1882

974 Northeastern or North Atlantic New England

.1 Maine

Admitted 15 Mar. 1820 as 23d state
Area 33,040 sq. mi. 16 counties
Sobriquets: Pinetree state, Polar Star state Capital: Augusta

.11 Aroostook
.12 Somerset
.125 Piscataquis
.13 Penobscot
.14 Washington
.145 Hancock
.15 Waldo
.153 Knox
.157 Lincoln
.16 Kennebec
.17 Franklin
.175 Oxford
.18 Androscoggin
.185 Sagadahoc
.19 Cumberland
.191 *Portland*
.195 York

.2 New Hampshire

Area 9341 sq. mi. 10 counties
Sobriquet: Granit state Capital: Concord

.21 Coos
.22 *White mts*
.23 Grafton
.24 Carroll
.245 Belknap
.25 Strafford
.26 Rockingham
.27 Merrimac
.275 Sullivan
.28 Hillsboro
.29 Cheshire

.3 Vermont

Area 9564 sq. mi. 14 counties
Sobriquet: Green Mt state Capital: Montpelier

.31 Grand Isle
.313 Franklin
.317 Chittenden
.32 Orleans
.325 Essex
.33 Caledonia
.335 Lamoille
.34 Washington
.35 Addison
.36 Orange
.365 Windsor
.37 Rutland
.38 Bennington
.39 Windham

974.4 Massachusetts

Area 8266 sq. mi. 14 counties
Sobriquet: Bay state Capital: Boston

.41 Berkshire
.42 Franklin
.423 Hampshire
.426 Hampden
.43 Worcester
.44 Middlesex
.45 Essex
.46 Suffolk
.461 *Boston*
.47 Norfolk
.48 Plymouth
.485 Bristol
.49 Barnstable
.494 Dukes
.497 Nantucket

.5 Rhode Island

Area 1248 sq. mi. 5 counties
Sobriquet: Little Rhody Capital: Providence

.51 Providence
.52 *Providence* (city)
.53 *Pawtucket* "
.54 Kent
.55 Bristol
.56 Newport
.57 *Newport* (city)
.58 *Block iland*
.59 Washington

.6 Connecticut

Area 4965 sq. mi. 8 counties
Sobriquet: Wooden Nutmeg state Capital: Hartford

.61 Litchfield
.62 Hartford
.63 *Hartford* (city)
.64 Tolland
.645 Windham
.65 New London
.66 Middlesex
.67 New Haven
.68 *New Haven* (city)
.69 Fairfield

974.7 **New York**

Area 49,204 sq. mi. 61 counties (exclusiv of Bronx)

Sobriquet: Empire state Capital: Albany

.71 *New York* (city)
.72 Vicinity of New York city
.721 **Long Island**
.722 Kings county
.723 *Brooklyn*
.724 Queens county
5 Nassau "
.725 Suffolk "
.726 Richmond " Staten Island
.727 Westchester "
5 *Bronx boro* (and county)
.728 Rockland county
.73 Southeast counties
.731 Orange, *West Point*
.732 Putnam
.733 Dutchess
.734 Ulster
.735 Sullivan
.736 Delaware
.737 Green
.738 *Catskill mts*
.739 Columbia
.74 Middle east counties
.741 Rensselaer
Troy
.742 Albany
.743 *Albany* (city)
.744 Schenectady
.745 Schoharie
.746 Montgomery
.747 Fulton
.748 Saratoga
.749 Washington
.75 Northern counties
.751 Warren
Lake George
.752 Hamilton
.753 Essex
Adirondaks
.754 Clinton
Lake Champlain
.755 Franklin
.756 St Lawrence
.757 Jefferson
.758 *Thousand Islands*
.759 Lewis

New York

974.76 North central counties
.761 Herkimer
.762 Oneida
.763 *Utica*
.764 Madison
.765 Onondaga
.766 *Syracuse*
.767 Oswego
.768 Cayuga
.769 Seneca
.77 South central counties
.771 Tompkins
.772 Cortland
.773 Chenango
.774 Otsego
.775 Broome
.776 *Binghamton*
.777 Tioga
.778 Chemung
.779 *Elmira*
.78 West central counties
.781 Schuyler
.782 Yates
.783 Steuben
.784 Allegany
.785 Livingston
.786 Ontario
.787 Wayne
.788 Monroe
.789 *Rochester*
.79 Western counties
.791 Orleans
.792 Genesee
.793 Wyoming
.794 Cattaraugus
.795 Chautauqua
.796 Erie
.797 *Buffalo*
.798 Niagara
.799 *Niagara Falls*

974.8 Pennsylvania

In territory claimd in 17th century by Sweden and then cald New Sweden or New Swedeland
Area 45,126 sq. mi. 67 counties

Sobriquet: Keystone state Capital: Harrisburg

.81 Southeast counties Philadelphia and Chester group

.811 Philadelphia (co. and city)
.812 Montgomery
.813 Chester
.814 Delaware
.815 Lancaster
.816 Berks
.817 Schuylkill
.818 Dauphin
.819 Lebanon

.82 Eastern counties Bucks group

.821 Bucks
.822 Northampton
.823 Wayne
.824 Pike
.825 Monroe
.826 Carbon
.827 Lehigh

.83 Northeast counties Northumberland group

.831 Northumberland
.832 Luzerne
.833 *Wilkes-Barre*
.834 Susquehanna
.835 Wyoming
.836 Lackawanna
.837 *Scranton*
.838 Columbia
.839 Montour

.84 Southeast central counties Cumberland group

.841 York
.842 Adams
.843 Cumberland
.844 Franklin
.845 Perry
.846 Mifflin
.847 Juniata
.848 Union
.849 Snyder

.85 Northeast central counties East Lycoming group

.851 Lycoming
.852
.853 Center
.854 Clinton
.855 Potter
.856 Tioga
.857 Bradford
.858
.859 Sullivan

Pennsylvania

974.86 Northwest central counties West Lycoming group

.861 Clearfield
.862 Jefferson
.863 McKean
.864
.865 Elk
.866 Cameron
.867 Warren
.868 Forest
.869 Clarion

.87 Southwest central counties Bedford group

.871 Bedford
.872 Fulton
.873 Huntingdon
.874
.875 Blair
.876 *Altoona*
.877 Cambria
.878
.879 Somerset

.88 Southwest counties Westmoreland group

.881 Westmoreland
.882 Washington
.883 Greene
.884 Fayette
.885 Allegheny
.886 *Pittsburgh*
.887 *Allegheny City*
Annext to Pittsburgh in 1907
.888 Armstrong
.889 Indiana

.89 Northwest counties Allegheny group

.891 Butler
.892 Beaver
.893 Lawrence
.894
.895 Mercer
.896 Venango
.897 Crawford
.898
.899 Erie

.9 New Jersey

Area 8224 sq. mi. 21 counties

Sobriquet: Jersey Blue state Capital: Trenton

.91 East Jersey

.92 Northern counties

.921 Bergen
.922
.923 Passaic
.924 *Paterson*
.925
.926 Hudson
.927 *Jersey City*
.928 *Hoboken*

New Jersey

974.93 Central counties

.931 Essex
.932 *Newark*
.933 *Orange*
.934
.935
.936 Union
.937 *Elizabeth*
.938 *Rahway*
.94 Southern counties
.941 Middlesex
.942 *New Brunswick*
.943
.944 Somerset
.945
.946 Monmouth
.947
.948 Ocean
.95 West Jersey
.96 Central counties
.961 Burlington
.962
.963
.964
.965 Mercer
.966 *Trenton*
.967 *Princeton*
.97 Northern counties
.971 Hunterdon
.972 *Raritan*
.973
.974 Morris
.975
.976 Sussex
.977
.978 Warren
.98 Upper southern counties
.981 Gloucester
.982
.983
.984 Atlantic
.985
.986
.987 Camden
.988 *Camden* (city)
.99 Lower southern counties
.991 Salem
.992 *Salem City*
.993
.994 Cumberland
.995 *Bridgeton*
.996
.997
.998 Cape May

975 Southeastern or South Atlantic

Including general works on the South

.1 Delaware

Area 1965 sq. ml.

3 counties

Sobriquets: Blue Hen state, Diamond state Capital: Dover

.11 Newcastle
.12 *Wilmington*
.14 Kent .15 *Dover*
.17 Sussex

.2 Maryland

Area 12,327 sq. mi.

23 counties and Baltimore city

Sobriquet: Old Line state Capital: Annapolis

.21 Eastern Maryland
.221 Worcester
.223 Somerset
.225 Wicomico
.227 Dorchester
.231 Caroline
.232 Talbot
.234 Queen Annes
.236 Kent
.238 Cecil
.24 Southern Maryland
.241 St Marys
.244 Calvert
.247 Charles
.251 Prince Georges
.255 Anne Arundel
.256 *Annapolis*
.26 *Baltimore* (city)
.27 North central
.271 Baltimore
.274 Harford
.277 Carroll
.281 Howard
.284 Montgomery
.287 Frederick
.288 *Frederick* (city)
.29 Western
.291 Washington
.292 *Hagerstown*
.294 Allegany
.295 *Cumberland*
.297 Garrett

.3 District of Columbia, Washington (city)

Area 70 sq. mi.

975.4 West Virginia

19 June 1863 admitted as 35th state Area 24,780 sq. mi.
55 counties
Sobriquet: Panhandle state Capital: Charleston

OUTLINE

.41	**Ohio valley**
.411	Northern Panhandle
.42	Little Kanawha valley
.43	Kanawha valley
.44	Southwestern border counties
.441	Guyandotte valley
.446	Tug valley
.45	**Central plateau**
.451	Monongahela valley
.46	Central counties
464	Elk valley
.468	Gauley valley
.47	New River valley
.48	**Alleghany crest** Mountain counties
.481	Cheat valley
.486	Greenbrier valley
.49	Eastern Panhandle Potomac valley

.41 Ohio valley

.411 Northern Panhandle

.412 Hancock
.413 Brooke
.414 Ohio
.415 *Wheeling*
.416 Marshall
.417
.418 Wetzel
.419 Tyler

.42 Little Kanawha valley

.421 Pleasants
.422 Wood
.423 *Parkersburg*
.424 Ritchie
.425
.426 Wirt
.427 Gilmer
.428
.429 Calhoun

.43 Kanawha valley

.431 Jackson
.432
.433 Mason
.434
.435 Putnam
.436 Roane
.437 Kanawha
.438 *Charleston*
.439 Boone

West Virginia: Ohio valley

975.44 Southwestern border counties

.441 Guyandotte valley
.442 Cabell
.4421 *Huntington*
.443 Lincoln
.444 Logan
.445 Wyoming
.446 Tug valley
.447 Wayne
.448 Mingo
.449 McDowell

.45 Central plateau

.451 Monongahela valley

.452 Monongalia
.453 *Morgantown*
.454 Marion
.455 Taylor
.456 Doddridge
.457 Harrison
.458 *Clarksburg*
.459 Barbour

.46 Central counties

.461 Lewis
.462 Upshur
.464 Elk valley
.465 Webster
.466 Braxton
.467 Clay
.468 Gauley valley
.469 Nicholas

.47 New River valley

.471 Fayette
.473 Raleigh
.474 Mercer
.476 Summers
.478 Monroe

.48 Alleghany crest Mountain counties

.481 Cheat valley

.482 Preston
.483 Tucker
.484
.485 Randolph

.486 Greenbrier valley

.487 Pocahontas
.488 Greenbrier
.489 *White Sulphur Springs*

.49 Eastern Panhandle Potomac valley

.491 Pendleton
.492 Grant
.493 Hardy
.494 Mineral
.495 Hampshire
.496 Morgan
.497 Berkeley
.498
.499 Jefferson

975.5 Virginia

17 Ap. 1861 seceded; 26 Jan. 1870 readmitted Area 40,262 sq. mi.
100 counties and 20 independent cities
Sobriquets: Old Dominion, Mother of Presidents Capital: Richmond

.51 Atlantic coast
.513 Eastern peninsula counties
.515 Northampton
.516 Accomac
.518 Chesapeake bay
.52 Potomac counties Northern neck
.521 Northumberland
.522 Lancaster
.523 Richmond
.524 Westmoreland
.525 King George
.526 Stafford
.527 Prince William
5 Fauquier
.528 Loudoun
.529 Fairfax
5 Arlington
6 *Alexandria* (city)
.53 Rappahannock-York counties
.531 Mathews
.532 Gloucester
.533 Middlesex
.534 Essex
.535 King and Queen
5 King William
.536 Caroline
5 Spotsylvania
6 *Fredericksburg*
.537 Orange
5 Greene
.538 Madison
.539 Culpeper
5 Rappahannock
.54 York-James counties
.541 Elizabeth City co.
5 Warwick
6 *Newport News*
.542 York
5 James City co.
.543 New Kent
.544 Charles City co.
.545 Henrico
1 *Richmond* (city)
5 Goochland
.546 Hanover
5 Louisa
.547 Fluvanna
.548 Albemarle
1 *Charlottesville*
.549 Nelson
6 Amherst

Virginia

975.55 Southeastern counties
.551 Princess Anne
.552 Norfolk
1 *Norfolk* (city)
2 *Portsmouth*
.553 Nansemond
1 *Suffolk*
.554 Isle of Wight
.555 Southampton
.556 Surry
5 Sussex
.557 Greensville
5 Brunswick
.558 Dinwiddie
1 *Petersburg*
5 Prince George
6 *Hopewell*
.559 Chesterfield
.56 South central counties
.561 Powhatan
5 Cumberland
.562 Buckingham
5 Appomattox
.563 Prince Edward
4 Amelia
7 Nottoway
.564 Lunenburg
5 Mecklenburg
.565 Charlotte
.566 Halifax
5 Pittsylvania
6 *Danville*
.567 Campbell
1 *Lynchburg*
5 Bedford
.568 Franklin
.569 Henry
5 Patrick

Virginia

975.57 Southwestern counties
- .571 Floyd
- 4 Carroll
- 7 Grayson
- .572 Smyth
- 5 Washington
- 6 *Bristol*
- .573 Scott
- 5 Lee
- .574 Wise
- 5 Dickenson
- .575 Buchanan
- 5 Russell
- .576 Tazewell
- 5 Bland
- .577 Wythe
- 5 Pulaski
- .578 Giles
- 5 Montgomery
- 6 *Radford*
- .579 Roanoke
- 1 *Roanoke* (city)
- 5 Craig

.58 Central western counties
- .581 Alleghany
- 1 *Clifton Forge*
- .583 Botetourt
- .585 Rockbridge
- 1 *Buena Vista*
- .587 Bath
- .589 Highland

.59 Northwestern counties — Shenandoah valley
- .591 Augusta
- 1 *Staunton*
- .592 Rockingham
- 1 *Harrisonburg*
- .594 Page
- .595 Shenandoah
- .597 Warren
- .598 Clarke
- .599 Frederick
- 1 *Winchester*

975.6 **North Carolina**

20 May 1861 seceded; 25 June 1868 readmitted. Area 52,426 sq.mi. 100 counties. Sobriquets: Old North, Turpentine or Tar Heel state. Capital: Raleigh (975.6551)

.61 Coastal plain — Eastern counties

Flatwoods district

.611 Northeast coastal plain — North Atlantic coast counties

Albemarle Sound
- .612 Currituck
- .613 Camden
- 5 Pasquotank
- .614 *Elizabeth City*
- 1 Perquimans
- 4 Chowan
- 7 Gates
- .615 Hertford
- 5 Bertie
- .616 Washington
- 5

.62 Southeast coastal plain — South Atlantic coast counties

Cape Fear section
- .621 Jones
- .623 Onslow
- .625 Pender

.63 Southwest coastal plain — Sandhil counties
- .631 Columbus
- .632 Bladen
- .633 Robeson
- 5 Scotland
- .634 Richmond
- .635 Moore
- 5 Lee
- .636 Harnett
- 5 Hoke

.64 Northwest coastal plain counties
- .641 Johnston
- .643 Wilson
- 1 *Wilson* (city)
- .644 Pitt
- .645 Martin

.65 Piedmont, Plateau or Central counties

.651 Northeast Piedmont counties
- .652 Warren
- .653 Vance
- 5 Granville
- .654 Franklin
- .655 Wake
- 1 *Raleigh*

Pamlico Sound
- .617 Tyrrell
- 5 Dare Roanoke Island
- .618 Hyde
- 2 Beaufort
- 6 Craven
- .619 *New Bern*
- 1 Pamlico
- 4 Carteret
- 7

.627 New Hanover
- 1 *Wilmington*
- .629 Brunswick

.637 Cumberland
- 1 *Fayetteville*
- 5 Sampson
- .638 Duplin
- 5 Lenoir
- 6 *Kinston*
- .639 Greene
- 5 Wayne
- 6 *Goldsboro*

.646 Edgecomb
- 9 *Rocky Mount*
- .647 Nash
- .648 Halifax
- .649 Northampton

.656 Durham
- 1 *Durham* (city)
- 5 Orange
- .657 Person
- 5 Caswell
- .658 Alamance
- .659 Chatham

North Carolina

975.66 Northwest Piedmont counties
- .661 Randolph
- .662 Guilford
  - 1 *High Point*
  - 2 *Greensboro*
- .663 Rockingham
- .664 Stokes
- .665 Surry
- .666 Yadkin
- .667 Forsyth
  - 1 *Winston-Salem*
- .668 Davidson
- .669 Davie

.67 South Piedmont counties
- .671 Rowan
  - 1 *Salisbury*
- .672 Cabarrus
  - 1 *Concord*
- .673 Stanly
- .674 Montgomery
- .675 Anson
  - 5 Union
- .676 Mecklenburg
  - 1 *Charlotte*
- .677 Gaston
  - 1 *Gastonia*
- 5 Cleveland
- .678 Lincoln
- 5 Catawba
- .679 Iredell
- 5 Alexander

.68 Appalachian, Mountain or Western counties

Asheville Plateau, ' Land of the Sky ', Blue Ridge; clas general works on Blue Ridge Mts in 975.5. Pisgah national forest. Clas general works on Appalachian Mts in 975

.681 Northeast Appalachian counties
- .682 Wilkes
- .683 Alleghany
  - 5 Ashe
- .684 Watauga
  - 5 Caldwell
- .685 Burke
- .686 Avery
- .687 Yancey
  - 1 **Mt Mitchell**
- 5 Madison
- .688 Buncombe
  - 1 *Asheville*
- .689 McDowell

.69 Southwest Appalachian counties
- .691 Rutherford
  - 5 Polk
- .692 Henderson
- .693 Transylvania
- .694 Haywood
  - Qualla Indian reservation
- .695 Jackson
- .696 Swain

  Great Smoky Mt region; clas general works on Great Smokies and Great Smoky Mt national park in 976.889
- .697 Graham
- .698 Macon

  Nantahala national forest
- .6985 Clay
- .699 Cherokee

.7 South Carolina

20 Dec. 1860 seceded; 25 June 1868 readmitted. Area 30,989 sq.mi. 46 counties. Sobriquet: Palmetto state. Capital: Columbia (975.7711)

.71 Piedmont plateau Up country

.72 Mountain or Alpin counties
- .721 Oconee

  Chattooga ridge
- .723 Pickens
- .725 Anderson
  - 1 *Anderson* (city)
- .727 Greenville
  - 1 *Greenville* (city)
- .729 Spartanburg
  - 1 *Spartanburg* (city)

South Carolina

975.73 Southwest Piedmont counties
- .731 Laurens
- .733 Greenwood
  - 1 *Greenwood* (city)
- .735 Abbeville
- .736 McCormick
- .737 Edgefield
- .738 Saluda
- .739 Newberry

.74 Northeast Piedmont counties
- .741 Union
- .742 Cherokee
- .743 York
  - 1 *Rock Hill*
- .745 Lancaster
- .747 Chester
- .749 Fairfield

.75 Coastal plain Low country

.76 Sandhil and Upper pine belt counties: northeast section

To be used as general number for Sandhils and Upper pine belt
- .761 Kershaw
  - 1 *Camden*
- .763 Chesterfield
- .764 Marlboro
- .766 Darlington
- .767 Lee
- .769 Sumter
  - 1 *Sumter* (city)

.77 Sandhil and Upper pine belt counties: southwest section
- .771 Richland
  - 1 *Columbia*
- .772 Calhoun
- .773 Lexington
- .775 Aiken
  - 1 *Aiken* (city)
- .776 Barnwell
- .777 Allendale
- .778 Bamberg
- .779 Orangeburg

.78 Lower pine belt and Coast counties: northeast section

Pedee section

To be used as general number for Lower pine belt and Coast region
- .781 Clarendon
- .783 Williamsburg
- .784 Florence
  - 1 *Florence* (city)
- .785 Dillon
- .786 Marion
- .787 Horry
- .789 Georgetown

.79 Lower pine belt and Coast counties: southwest section
- .791 Charleston
  - 1 *Charleston* (city)
- .793 Berkeley
- .794 Dorchester
- .799 Beaufort
  - 1 *Beaufort* (city)
  - 5 Sea islands

    Clas here or under 917.57995 works on the Sea islands as a whole, as wel as on individual islands which ar part of Beaufort county, but clas under 975.791 or 917.5791 Charleston county, works on islands which ar part of that county
- .795 Colleton
- .797 Hampton
- .798 Jasper

975.8 Georgia

19 Jan. 1861 seceded; 25 June 1868 readmitted. Area 59,265 sq.mi. 159 counties. Sobriquets: Cracker or Buzzard state, Empire state of the South. Capital: Atlanta (975.8231)

.81 North Georgia

.811 Northeast counties

.812 Rabun
5 Habersham
.813 Stephens
5 Franklin
.814 Banks
5 Jackson
.815 Madison
5 Hart
.816 Elbert
5 Lincoln
.817 Wilkes
5 Oglethorpe
.818 Clarke
1 *Athens*
.819 Oconee
5 Barrow

82 North central counties Appalachian, Highland or Mountain region

Blue Ridge. Clas general works on Appalachian Mts in 975, on Blue Ridge in 975.5

.821 Walton
5 Rockdale
.822 Gwinnett
5 DeKalb
Stone Mt Confederate memorial
.823 Fulton
1 *Atlanta*
4 Milton
Merged with Fulton, 1932
.824 Douglas
5 Cobb
.825 Cherokee
5 Pickens
.826 Dawson
5 Forsyth
.827 Hall
3 Lumpkin
7 White
.828 Towns

Cherokee national forest: Blue Ridge section. Clas general works on Cherokee national forest in 976.888

5 Union
.829 Fannin
.8295 Gilmer

.83 Northwest counties Valley region

Appalachian Valley, Great Valley. Clas general works on Appalachian Valley in 975

.831 Murray
.832 Whitfield
6 Catoosa
.833 Walker
.834 Dade
Lookout Plateau, Lookout Mts
4 Chattooga
.835 Floyd
1 *Rome*
.836 Gordon
5 Bartow
Cald Cass 1832–61
.837 Paulding
5 Polk
.838 Haralson
.839 Carroll

Georgia

975.84 Middle Georgia Central upland Piedmont region

.841 West central counties

.842 Heard
3 Coweta
6 Fayette
.843 Clayton
5 Henry
.844 Spalding
1 *Griffin*
6 Lamar
.845 Pike
5 Meriwether
.846 Troup
1 *La Grange*
6 Harris
.847 Muscogee
1 *Columbus*
6 Chattahoochee
.848 Marion
3 Talbot
6 Upson
.849 Taylor
5 Schley

.85 Central counties

.851 Macon
5 Houston
.852 Pulaski
5 Bleckley
.853 Dodge
5 Laurens
.854 Wilkinson
5 Twiggs
.855 Bibb
1 *Macon* (city)
6 Peach
.856 Crawford
3 Monroe
7 Jones
.857 Baldwin
6 Putnam
.858 Jasper

Cald Randolph 1807–12. Present Randolph co., 975.893, was organized in 1828

5 Butts
.859 Newton
5 Morgan

.86 East central counties

.861 Greene
6 Taliaferro
.862 Hancock
5 Warren
.863 McDuffie
5 Columbia
.864 Richmond
Formd St Paul's parish til 1777
1 *Augusta*
.865 Burke
Formd St George's parish til 1777
.866 Jefferson
6 Glascock
.867 Washington
6 Johnson
.868 Treutlen
4 Emanuel
.869 Jenkins
5 Screven

.87 South Georgia Coastal plain

.871 Southeast counties

.872 Effingham

Formd St Matthew's and part of St Philip's parishes til 1777

4 Chatham

Formd Christ Church parish till 1777

5 *Savannah*

Georgia

975.873 Bryan
3 Liberty
Formd St John's, St Andrew's and St James' parishes til 1777
7 McIntosh
.874 Glynn
Formd St Patrick's and St David's parishes till 1777
1 *Brunswick*
6 Camden
Formd St Thomas' and St Mary's parishes til 1777
.875 Charlton
Okefenokee
Swamp
3 Brantley
6 Wayne
.876 Long
3 Evans
6 Bulloch

.88 South central counties
.881 Clinch
4 Echols
7 Lanier
.882 Atkinson
3 Coffee
7 Jeff Davis
.883 Montgomery
5 Wheeler
.884 Telfair
5 Wilcox

.89 Southwest counties
.891 Sumter
6 Webster
Cald Kinchafoonee 1853-56
.893 Randolph
Jasper co., 975.858, cald Randolph 1807–12. Present Randolph co. organized 1828
5 Terrell
.894 Lee
5 Worth
.895 Dougherty
1 *Albany*
6 Calhoun
.896 Early
4 Miller

Wire-gras section
.885 Ben Hill
5 Irwin
.886 Berrien
4 Lowndes
5 *Valdosta*
.887 Brooks
6 Cook
.888 Tift
5 Turner
.889 Crisp
5 Dooly
.892 Stewart
4 Quitman
7 Clay
.8967 Baker
.897 Mitchell
5 Colquitt
.898 Thomas
1 *Thomasville*
6 Grady
.899 Decatur
6 Seminole

975.9 **Florida**
1512 discoverd by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819 bought of Spain
30 Mar. 1822 organized as territory
3 Mar. 1845 admitted as 27th state
10 Jan. 1861 seceded; 25 June 1868 readmitted Area 54,861 sq. mi.
66 counties
Sobriquets: Everglade, Gulf state Capital: Tallahassee

.91 Northeast counties
.911 Nassau
.912 Duval
1 *Jacksonville*
.913 Baker
.914 Union
.915 Bradford
.916 Clay
.917 Putnam
.918 St Johns
1 *St Augustine*
.919 Flagler

.92 East central counties
.921 Volusia
1 *New Smyrna*
.922 Lake
.923 Seminole
.924 Orange
1 *Orlando*
.925 Osceola
.927 Brevard
.928 Indian River
.929 St Lucie

.93 Southeast coast
.931 Martin
.932 Palm Beach
.935 Broward
.938 Dade
1 *Miami*

.94 Southwest coast
.941 Monroe
1 *Key West*
.944 Collier
.946 Hendry
.948 Lee
.949 Charlotte

Florida

975.95 South central counties
- .951 Glades
- .953 Okeechobee
- .955 Highlands
- .957 Hardee
- .959 De Soto

.96 West central counties
- .961 Sarasota
- .962 Manatee
- .963 Pinellas
  - 1 *St Petersburg*
- .965 Hillsborough
  - 1 *Tampa*
- .967 Polk
- .969 Pasco

.97 Northern west central counties
- .971 Hernando
- .972 Citrus
- .973 Sumter
- .975 Marion
- .977 Levy
- .979 Alachua

.98 North central counties
- .981 Dixie
- 6 Lafayette
- .982 Suwanee
- .983 Columbia
- .984 Hamilton
- .985 Madison
- .986 Taylor
- .987 Jefferson
- .988 Leon
  - 1 *Tallahassee*
- .989 Wakulla

.99 Northwestern counties
- .991 Franklin
- .992 Liberty
- 5 Gadsden
- .993 Jackson
- .994 Calhoun
- 7 Gulf
- .995 Bay
- .996 Washington
- 5 Holmes
- .997 Walton
- .998 Okaloosa
- 5 Santa Rosa
- .999 Escambia
  - 1 *Pensacola*

976 South Central or Gulf

.1 **Alabama**

1702 settled by French. 14 Dec. 1819 admitted as 22d state. 11 Jan. 1861 seceded; 25 June 1868 readmitted. Area 51,998 sq.mi. 67 counties. Sobriquets: Land of Flowers; Cotton, Lizard or Yallerhammers state. Capital: Montgomery (976.1471)

.11 Southern Alabama Coastal plain division

.12 Gulf coast counties Southwestern pine hils Lower coastal plain

.121 Baldwin
- Coast strip, Mobile delta, Estuarin swamps
- 1 Mobile Bay

.122 Mobile
- 1 *Mobile* (city)

.123 Lime hils Piney woods
- .124 Washington
- 5 Clarke
- .125 Monroe
- .126 Conecuh
- 5 Escambia
- .127 Covington
  - Cald Jones co. during 1868

.128 Lime sink or Wire-gras region
- .129 Geneva
- .1295 Houston

.13 Southern red hils Wiregras section Including works on southeast counties
- .131 Henry
- .132 Barbour
- .133 Dale
- .134 Coffee
- .135 Pike
- .136 Crenshaw
- .137 Butler
- .138 Wilcox
- .139 Marengo
- 5 Choctaw

.14 Black belt, Canebrake or Prairie counties
- Chunnennuggee Ridge or Blue marl region, central Alabama
- .141 Sumter
- .142 Greene
- .143 Hale
- .144 Perry
- .145 Dallas
- .146 Autauga
- .1465 Lowndes
- .147 Montgomery
  - 1 *Montgomery* (city)
- .148 Bullock
- 5 Russell
- .149 Macon

.15 Northern Alabama Hil country Mineral or Mountain and valley division

.151 Piedmont region East central counties
- .152 Elmore
- .153 Tallapoosa
- .155 Lee
- .156 Chambers
- .157 Randolph
- .158 Clay
- .159 Coosa

Alabama

976.16 Appalachian or Coosa Valley region

Blue Ridge, Raccoon Mts, Limestone valleys. Clas general works on Appalachian Valley in 975, on Blue Ridge in 975.5

.161 Talladega
.163 Calhoun
Cald Benton 1832–58
.164 Cleburne
.165 Cherokee
.166 DeKalb Wills Valley
.167 Etowah
Establisht as Baine co. in 1866, abolisht in 1867, reestablisht as Etowah co. in 1868
.169 St Clair

.17 Coal region or Mineral district

.171 **Plateau section**
Sand mountains
.172 Blount
Murphree's Valley
.173 Cullman
.174 Winston
.175 **Basin section**
.176 Walker
.178 Jefferson
Jones Valley
1 *Birmingham*
.179 Shelby

.18 Central pine belt West central counties

Upper costal plain

.181 Chilton
Cald Baker 1868–71
.182 Bibb
Cald Cahaba 1818–20
.184 Tuscaloosa
.185 Pickens
.186 Lamar
.187 Fayette
.189 Marion

.19 Tennessee Valley counties

Clas general works on Tennessee River in 976.8

191 Franklin
5 Colbert
.192 Lawrence
.196 Highland Rim The Barrens
Clas general works on Highland Rim in 976.841
.197 Madison
.198 Limestone
.193 Morgan
.194 Marshall
.195 Jackson Brown's Valley
.199 Lauderdale
1 **Muscle Shoals**

976.2 Mississippi

7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state. 9 Jan. 1861 seceded; 17 Feb. 1870 readmitted. Area 46,865 sq.mi. 82 counties. Sobriquets; Bayou, Eagle or Magnolia state. Capital: Jackson (976.2511)

.21 Mobile district (West Florida) Southeast counties

Clas general works on West Florida in 975.99

.211 **Gulf counties**

Coastal pine medows, Mississippi Sound

.212 Jackson
.213 Harrison
1 *Biloxi* *Gulfport*
.214 Hancock

.215 Pearl River
.216 Stone
5 George
.217 Greene
.2175 Perry
.218 Forrest
1 *Hattiesburg*
.219 Lamar

.22 Natchez district (West Florida) Southwest counties

Bluf hils. Clas general works on West Florida in 975.99

.221 Marion
.222 Walthall
.223 Pike
.224 Amite
.225 Wilkinson
.226 Adams
1 *Natchez*
.227 Franklin
.228 Jefferson
Cald Pickering 1799–1802
5 Claiborne
.229 Warren
1 *Vicksburg*

.23 Choctaw cessions

.24 **Delta counties**

Yazoo-Mississippi delta or flood plain. Clas general works on Mississippi valley in 977

.241 Issaquena
4 Sharkey
.242 Washington
1 *Greenville*
.243 Bolivar
.244 Coahoma
.245 Quitman
5 Tallahatchie
.246 Leflore
.247 Sunflower
.248 Humphreys
.249 Yazoo

.25 **Long-leaf pine region**

.251 Hinds
1 *Jackson*
.252 Copiah
.253 Lincoln
6 Lawrence
.254 Jefferson Davis
5 Covington
.255 Lones 1 *Laurel*
.256 Jackson Prairie belt
.257 Wayne
5 Jasper
.258 Smith
5 Simpson
.259 Rankin

Mississippi

976.26 **Plateau region**
See also 976.28 Northern plateau counties

.261 Western plateau counties
.262 Madison
5 Holmes
.263 Carroll
5 Grenada
.266 Eastern plateau counties
.267 Newton
3 Clarke
6 Lauderdale
7 *Meridian*
.268 Kemper

Central counties
.264 Montgomery
4 Attala
.265 Leake
5 Scott
.2685 Neshoba
.269 Winston
4 Choctaw
7 Webster
Cald Sumner 1874–82

.27 Chickasaw cessions

.28 **Northern plateau counties** **Northwest counties**
Clas general works on Plateau region in 976.26

.281 Calhoun
.282 Yalobusha
.283 Lafayette
.284 Panola
.285 Tate
.286 Tunica
.287 DeSoto
.288 Marshall
.289 Benton

.29 **Northeast counties**
.291 Flatwoods region Black Prairie belt
Pontotoc Ridge
.292 Tippah
5 Union
.293 Pontotoc
5 Lee
.296 Tennessee River hils
Clas general works on Tennessee River in 976.8
.297 Lowndes
1 *Columbus*
5 Monroe

.294 Chickasaw
5 Clay Cald Colfax 1871–6
.295 Oktibbeha
5 Noxubee
.298 Itawamba
5 Prentiss
.299 Alcorn
Tishomingo

.3 Louisiana

1699 settled by French. 30 Ap. 1803 bought of France. 1 Oct. 1804 organized as Territory of Orleans. 30 Ap. 1812 Louisiana admitted as 18th state. 26 Jan. 1861 seceded; 25 June 1868 readmitted. Area 48,506 sq.mi. 64 parishes. Sobriquets: Pelican or Creole state. Capital: Baton Rouge (976.3181)

.31 Florida parishes
Baton Rouge district of West Florida. Clas general works on West Florida in 975.99

.311 Washington
1 *Bogalusa*
.312 St Tammany
.313 Tangipahoa
.314 Livingston
.315 St Helena

.316 East Feliciana
.317 West "
.318 East Baton Rouge
1 *Baton Rouge* (city)
.319 Ascension

Louisiana

976.32 Gulf coast region Southern Louisiana

.33 **Mississippi delta parishes** **Southeast parishes**
Clas general works on Mississippi River and valley in 977

.331 St James
.332 St John the Baptist
Lake Maurepas, Lac des Allemands
.333 St Charles
'German coast', Lake Salvador or Ouache
.334 **Lake Pontchartrain**
.335 Orleans *New Orleans*
.336 St Bernard
Lake Borgne, Chandeleur Sound, Chandeleur Islands
.337 Plaquemines
Breton Sound, Breton Island and Tern Islands bird reservations
.338 Jefferson Barataria Bay
.339 Lafourche
Timbalier Bay, East Timbalier Island bird reservation

.34 **South central parishes**
.341 Terrebonne
Terrebonne Bay, Atchafalaya or Berwick Bay
.342 St Mary
Cote Blanche Bay
.343 Assumption
.344 Iberville
.345 West Baton Rouge
.349 Iberia
Grand Lake, Marsh Island, Russell Sage or Marsh Island wild life refuge, Shell Keys bird reservation

.3454 Pointe Coupee
.346 St Landry
.347 Lafayette
1 *Lafayette* (city)
.348 St Martin

.35 **Southwest parishes**
.351 Vermilion
Vermilion Bay, White Lake, State and Rainey wild life refuges
.352 Cameron
Grand and Calcasieu Lakes, Rockefeller wild life refuge
.353 Atakapas Prairie
.354 Calcasieu
1 *Lake Charles* (city)
.355 Jefferson Davis
.356 Acadia

.357 Evangeline
.358 Allen
.359 Beauregard

.36 West central parishes
Lower Red River; clas general works on Red River in 976.66.
Use as general number for central Louisiana

.361 Vernon
.362 Sabine
.363 DeSoto
.364 Red River
.365 Natchitoches

.366 Winn
.367 Grant
.369 Rapides
1 *Alexandria*

Louisiana

976.37 East central parishes
Ouachita or Washita River; use as general number. See also 976.76 Upper Ouachita (Washita) River

.371 Avoyelles
.373 Concordia
.374 Catahoula
.375 LaSalle Catahoula Lake
.376 Caldwell
.377 Franklin
.379 Tensas

.38 Northeast parishes
Use as general number for northern Louisiana

.381 Madison
Singer wild life refuge
.382 East Carroll
.383 West "
.384 Morehouse
.386 Richland
.387 Ouachita
1 *Monroe*
.389 Union

.39 Northwest parishes
.391 Lincoln
.392 Jackson
.393 Bienville
.394 Claiborne
.396 Webster
.397 Bossier
.399 Caddo Caddo Lake
1 *Shreveport*

.4 Texas
20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formd.
29 Dec. 1845 annext as 28th state
1 Feb. 1861 seceded; 30 Mar. 1870 readmitted Area 262,398 sq.mi.
253 counties.
Sobriquet: Lone Star state Capital: Austin

.5

.6 Indian Territory Oklahoma
30 June 1834 assignd to Indians (part of Louisiana purchase). 16 Nov. 1907 Oklahoma admitted as 46th state. Area 70,057 sq.mi. 77 counties. Sobriquet: Sooner state. Capital: Oklahoma City (976.6381)

.61 Western Oklahoma
Oklahoma territory 2 May 1890–16 Nov. 1907. Area 38,811 sq.mi. Canadian River; clas here general works on Canadian River including North and South Canadian; see also 976.67 Lower Canadian River

.611 Northwest counties
High plains region

.612 Panhandle
No Man's Land, Neutral strip, Public land strip; Cimarron territory 1887-90

.613 Cimarron
.615 Harper
5 Ellis
Former Day co., abolisht 1907, included present Ellis co. and north part of Roger Mills
.616 Roger Mills
Antelope Hils
.617 Custer
Gypsum Hils region
.6135 Texas
.618 Dewey
.619 Woodward
.614 Beaver

Oklahoma

976.62 North central counties
Cherokee outlet, Cherokee strip; Salt Fork Arkansas River. Clas general works on Arkansas River in 976.73

.621 Woods
.622 Alfalfa
.623 Grant
.624 Kay
.625 Osage
.626 Pawnee
.627 Noble
.628 Garfield
1 *Enid*
.629 Major Glass Mts

.63 Central counties
Redbeds plains region, Cimarron River

.631 Blaine
Stony Hils
.632 Kingfisher
.633 Logan
1 *Guthrie*
State capital 1907–10
.634 Payne
.635 Lincoln
.636 Pottawatomie
1 *Shawnee*
.637 Cleveland
.638 Oklahoma
1 *Oklahoma City*
.639 Canadian

.64 Southwest counties
Upper Red River; clas general works on Red River in 976.66

.641 Caddo Keeche Hils
.642 Washita
.643 Beckham
.644 Greer
.648 Comanche
Wichita Mts, Mt Scott, Wichita national forest and game preserve, Ft Sill military reservation
.649 Cotton
.6445 Harmon
.645 Jackson
.646 Tillman
.647 Kiowa Rainy Mt Range

.65 Eastern Oklahoma
Indian territory 1890–1907. Area 31,246 sq.mi.

.651 South central counties
Washita river

.652 Jefferson
.653 Stephens
.654 Grady
1 *Chickasha*
.655 McClain
.656 Garvin
.657 Murray
Arbuckle Mts, Platt national park
.658 Carter
1 *Ardmore*
.659 Love

.66 Southeast counties
Red River or Coastal plains region. Clas here general works on Red River; see also 976.64 Upper Red River, 976.36 Lower Red River

.661 Marshall
.662 Bryan
.663 Choctaw
.664 McCurtain
.665 Pushmataha Jack Fork Mts
.666 Atoka
.667 Coal
.668 Johnston
.669 Pontotoc

Oklahoma

976.67 Southern east central counties

Sandstone hils region, Lower Canadian River. Clas general works on Canadian River in 976.61

.671 Seminole
.672 Hughes
.673 Okfuskee
.674 McIntosh
.675 Pittsburg
1 *McAlester*
.676 Latimer
.677 Haskell
San Bois Mts
.679 LeFlore
Kiamichi, Poteau and Winding Stair Mts

.68 Northern east central counties

Arkansas River region. Clas general works on Arkansas River in 976.73

.681 Sequoyah
Brushy and Wildhorse Mts
.682 Muskogee
1 *Muskogee* (city)
.683 Okmulgee
1 *Okmulgee* (city)
.684 Creek
1 *Sapulpa*
.686 Tulsa
1 *Tulsa* (city)
.687 Wagner
.688 Cherokee
.689 Adair

.69 Northeast counties

Prairie plains region

.691 Delaware Wet Prairie
.693 Mayes
.694 Rogers
.696 Washington
1 *Bartlesville*
.697 Nowata
.698 Craig
.699 Ottawa

.7 Arkansas

4 June 1812 included in Missouri territory (977.8); 2 Mar. 1819 organized as Arkansas territory. 15 June 1836 admitted as 25th state. 6 May 1861 seceded; 22 June 1868 readmitted. Area 53,335 sq.mi. 75 counties. Sobriquets: Bear, Bowie or Wonder state. Capital: Little Rock (976.7731)

.71 Highland area

.711 Ozark plateau region

Clas general works on Ozark Mts in 977.87

.712 **Northwest counties** **Springfield Plateau**

Ozark national forest

.713 Benton
.714 Washington

Loveley co., organized 1827, abolisht 1828, included present Washington co.

.715 Madison
.716 Newton
Boston Mts, Diamond Cave
.717 Carroll
.718 Boone
.719 Marion
5 Searcy

Arkansas

976.72 **North central counties** **Salem plateau**

Black River, White River

.721 Baxter
.722 Fulton
Mammoth Spring
.723 Sharp
.724 Randolph
.725 Lawrence
.726 Independence
.727 Izard
.728 Stone
5 Cleburne
.729 Van Buren

.73 Arkansas valley region Northern west central counties

Clas here general works on Arkansas River. See also 976.68 Arkansas River in Okla., 978.14 in Kan., 978.89 in Colo.

.731 Conway Petit Jean state park
.732 Pope
.733 Johnson
.734 Franklin
.737 Logan Cald Sarber 1871–5. Mt Magazine
.738 Yell Mt Nebo
.735 Crawford
.736 Sebastian
1 *Ft Smith*
.739 Perry

.74 Ouachita Mt region Southern west central counties

Ouachita or Arkansas national forest

.741 Garland
1 *Hot Springs* (city) Hot Springs national park
.742 Hot Spring
.743 Montgomery
.744 Scott
.745 Polk
.746 Athens Plateau
.747 Sevier
.748 Howard
5 Pike
.749 Clark

.75 Gulf coastal plain area

.751 Southwest counties

.752 Nevada
.754 Hempstead
.755 Little River
.756 Miller
.757 Lafayette
.759 Columbia

.76 South central counties

Upper Ouachita or Washita River. Clas general works on Ouachita River in 976.37

.761 Union
.763 Bradley
.764 Calhoun
.766 Ouachita
.767 Dallas
.769 Cleveland Cald Dorsey 1873–5

Arkansas

976.77 Central counties

.771 Grant .772 Saline

.773 Pulaski

1 *Little Rock* *North Little Rock*

.774 Faulkner .778 Lonoke

.776 White Little Red River .779 Jefferson

.777 Prairie 1 *Pine Bluff*

.78 Mississippi alluvial plain

Clas general works on Mississippi valley in 977

.781 **Southeast counties**

.782 Lincoln .785 Desha

5 Drew .786 Arkansas

.783 Ashley .787 Monroe

.784 Chicot .788 Phillips

Lake Chicot .789 Lee

.79 **Northeast counties**

Crowley's Ridge, St Francis River

.791 St Francis .796 Poinsett St Francis Lake

.792 Woodruff .797 Jackson

.793 Cross .798 Craighead Sunk lands

.794 Crittenden .799 Greene

.795 Mississippi 5 Clay Cald Clayton

Big Lake 1873–5

.8 Tennessee

1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland). 1 June 1796 admitted as 16th state. 8 June 1861 seceded; 24 July 1866 readmitted. Area 42,022 sq.mi. 95 counties. Sobriquets: Big Bend, Volunteer or Hog and Hominy state. Capital: Nashville (976.8551) Tennessee River; clas here general works on Tennessee River; see also 976.83 Western Tennessee River valley, 976.88 Eastern Tennessee River valley, 976.19 Tennessee River valley in Ala., 976.99 Lower Tennessee River

81 West Tennessee

.811 Mississippi valley counties

Clas general works on Mississippi valley in 977

.812 Lake .816 Lauderdale

Reelfoot Lake .817 Tipton

.813 Obion .819 Shelby

.815 Dyer 1 *Memphis*

.82 West Tennessee plain

.821 Fayette .826 Henderson

.822 Haywood 5 Chester Wisdom co.

5 Crockett 1875–9

.823 Gibson .827 Madison

.824 Weakley 1 *Jackson*

.825 Carroll .828 Hardeman

.829 McNairy

Tennessee

976.83 Western Tennessee River valley

Clas general works on Tennessee River in 976.8

.831 Hardin .834 Henry .837 Humphrey

.832 Decatur .835 Stewart .838 Perry

.833 Benton .836 Houston .839 Wayne

.84 Middle Tennessee

Miro district

.841 Highland Rim or plain

Use as general number. See also 976.86 East Highland Rim, 976.196 Highland Rim in Ala., 976.96 Highland Rim in Ky

.842 Lawrence .8434 Hickman Duck River

.843 Lewis .844 Dickson

.845 Montgomery

Former Tennessee co., establisht 1788, abolisht 1796, included present Montgomery and Robertson cos.

.846 Cheatham .848 Trousdale

4 Robertson 4 Macon

.847 Sumner .849 Clay

.85 Central basin

Cumberland River; clas here general works on Cumberland River; see also 976.961 Upper Cumberland River, 976.9895 Lower Cumberland River

.851 Jackson .856 Williamson

.852 Smith .857 Rutherford

.853 DeKalb .858 Bedford

5 Cannon 5 Marshall

.854 Wilson .859 Maury

.855 Davidson

1 *Nashville*

.86 East Highland Rim

Clas general works on Highland Rim in 976.841

.861 Giles .864 Coffee .867 Putnam

.862 Lincoln .865 Warren .868 Overton

7 Moore 7 Van Buren 7 Pickett

.863 Franklin .866 White .869 Fentress

.87 Cumberland Plateau

South Appalachian plateau. Clas here general works on Cumberland Plateau; see also 976.91 Cumberland Plateau in Ky.

.871 Scott .876 Bledsoe

.872 Campbell .877 Sequatchie

.873 Anderson Sequatchie Valley, Waldens Ridge

Clinch River

.874 Morgan .878 Grundy

.875 Cumberland .879 Marion

Tennessee

976.88 East Tennessee

Washington and Hamilton district. Eastern Tennessee River valley and Appalachian Mt region, Great Appalachian valley. Clas general works on Tennessee River in 976.8, on Appalachian Mts and valley in 975

.881 Southeast counties

.882 Hamilton

James co., 1871–1919, formd part of present Hamilton co. Chickamauga and Chattanooga national park, Lookout Mt, Missionary Ridge. For Lookout Plateau and Mts see 975.834

.8821 *Chattanooga*

.883 Rhea

6 Meigs

.884 Roane

.885 Knox

1 *Knoxville*

.888 Monroe

Unaka Mts, Cherokee national forest: Unaka Mt section. Clas here general works on Cherokee national forest; see also 975.828 Blue Ridge section

5 Blount

.889 Sevier

Great Smoky Mts, Great Smoky Mt national park. See also 975.696 Great Smokies of N. Car.

5 Cocke

French Broad River, Mt Guyot

.89 Northeast counties

Holston River

.891 Greene Bald Mts

.892 Hamblen

4 Jefferson

.894 Claiborne

Cumberland Mts, Cumberland Gap. Clas general works on Cumberland Mts in 976.9154

6 Hancock

.895 Hawkins

Holston Mts

.896 Sullivan

.899 Johnson

Roan Mts, Stone Mts, Unaka national forest

.893 Grainger

Clinch mts

5 Union

.897 Washington

1 *Johnson City*

.898 Unicoi

4 Carter Iron Mts

976.9 **Kentucky**

1775 settled by Daniel Boone, Transylvania colony establisht; 29 May 1790 territory organized. 1 June 1792 admitted as 15th state. Area 40,598 sq.mi. 120 counties. Sobriquets: Blue Gras or Corn Cracker state, Dark and Bloody Ground. Capital: Frankfort (976.9431)

Ohio River; clas general works on Ohio valley in 977

.91 Kentucky mountains Cumberland Plateau Eastern coal field Eastern Kentucky

Clas general works on Cumberland Plateau in 976.87

.911 **Southern mountain region Southeast counties**

.912 Bell

Originally cald Josh Bell co. Pine Mts, Cumberland state park

5 Knox

.913 Whitley

5 McCreary

.9154 Harlan

Cumberland, Big Black, Little Black and Log Mts. Clas here general works on Cumberland Mts; see also 976.894 Cumberland Mts. in Tenn.

.916 Letcher

5 Knott

.917 Perry

6 Owsley

.914 Laurel

5 Clay Kentucky Ridge

.915 Leslie

.918 Jackson

5 Lee

.919 Breathitt

.92 **Northern mountain region Northeast counties**

Big Sandy, Tug and Lavisa valleys. See also 975.446 Tug Valley, W. Va.

.921 Wolfe

5 Magoffin

.922 Floyd

.923 Pike

.924 Martin

5 Johnson

.925 Morgan

.9255 Elliott

.926 Lawrence

.927 Boyd

1 *Ashland*

.928 Carter

.929 Greenup

5 Lewis

Kentucky

976.93 Bluegras region Northern Kentucky

Kentucky River

.931 **Outer or Northern Bluegras**

Licking River

.932 Mason .936 Boone
5 Bracken 5 Gallatin
.933 Pendleton .937 Carroll
.934 Campbell 5 Trimble
1 *Newport* .938 Oldham
.935 Kenton 5 Henry
1 *Covington* .939 Owen
5 Grant

.94 **Inner or Southern Bluegras** **Central Kentucky**

.941 Harrison .942 Bourbon
5 Robertson 5 Scott
7 Nicholas

Blue Licks Battlefield state park

.943 Franklin .944 Jefferson
1 *Frankfort* Beargras region
5 Shelby 1 *Louisville*
.945 Bullitt

Salt River, Old Kentucky Home state park

.9895 Spencer .947 Fayette .9485 Mercer
.946 Anderson 1 *Lexington* .949 Washington
5 Woodford .948 Jessamine 5 Nelson

.95 The Knobs region

.951 Marion .956 Fleming
.952 Boyle .957 Rowan
5 Garrard .958 Menifee
.953 Madison 5 Powell
.954 Clark Natural Bridge
.955 Montgomery state park
5 Bath .959 Estill

.96 Pennyroyal region Mississippian plateau Southern Kentucky

The Barrens, Highland Rim, Cavernous limestone area. Clas general works on Highland Rim in 976.841

.961 **East Pennyroyal**

Upper Cumberland River. Clas general works on Cumberland River in 976.85; see also 976.9895 Lower Cumberland River

.962 Rockcastle .967 Taylor
5 Lincoln 5 Adair
.963 Pulaski .968 Cumberland
.964 Wayne 5 Monroe
.965 Clinton .969 Metcalfe
5 Russell 5 Green
.966 Casey Green River Knobs

Kentucky

976.97 **West Pennyroyal**

.971 Larue

Muldraughs Hil, Lincoln's birthplace national monument

5 Hart Horse Cave .9755 Butler
.972 Barren .976 Logan
.973 Allen .977 Todd
5 Simpson Blue and Gray state park
.974 Warren
1 *Bowling Green* .978 Christian
.975 Edmonson 1 *Hopkinsville*
4 **Mammoth Cave** .979 Trigg

.98 Western coal field or basin

Use as general number for western Kentucky. Green River

.981 Lyon .985 Meade
5 Caldwell 4 Breckinridge
.982 Hopkins .986 Hancock
6 McLean 4 Daviess
.983 Muhlenberg 5 *Owensboro*
5 Ohio .987 Henderson
.984 Grayson 1 *Henderson* (city)
5 Hardin .988 Webster
Knox national forest 5 Union
.989 Crittenden

.9895 Livingston

Lower Cumberland River. Clas general works on Cumberland River in 976.85; see also 976.961 Upper Cumberland River

.99 Jackson purchase Gulf or Mississippi embayment

Mississippi valley counties; elas general works on Mississippi valley in 977. Lower Tennessee River; elas general works on Tennessee River in 976.8

.991 Marshall .996 Ballard
.992 Calloway .997 Carlisle
.993 Graves .998 Hickman
.995 McCracken .999 Fulton
1 *Paducah*

977 North Central or Lake

.1 Ohio

19 Feb 1803 admitted as 17th state Area 40,760 sq. mi.
88 counties
Sobriquet: Buckeye state Capital: Columbus

.11 Northwest counties

.111 Williams
5 Fulton
.112 Lucas
.113 *Toledo*
.114 Defiance
.115 Henry
.116 Wood
.117 Paulding
.118 Putnam
.119 Hancock
1 *Findlay*

.12 Central north counties

.121 Ottawa
4 Sandusky
.122 Erie
1 *Sandusky* (city)
.123 Lorain
1 *Lorain* (city)
.124 Seneca
1 *Tiffin*
.125 Huron
.126 Wyandot
.127 Crawford
.128 Richland
1 *Mansfield*
.129 Ashland

.13 Northeast counties

.131 Cuyahoga
.132 *Cleveland*
.133 Lake
6 Geauga
.134 Ashtabula
1 *Ashtabula* (city)
.135 Medina
.136 Summit
1 *Akron*
.137 Portage
.138 Trumbull
.139 Mahoning
1 *Youngstown*

Ohio

977.14 Central west counties

.141 Van Wert
5 Mercer
.142 Allen
1 *Lima*
.143 Auglaize
.144 Hardin
.145 Shelby
.146 Logan
5 Champaign
.147 Darke
.148 Miami
1 *Piqua*
.149 Clark
1 *Springfield*

.15 Central counties

.151 Marion
1 *Marion* (city)
6 Morrow
.152 Knox
.153 Union
5 Delaware
.154 Licking
1 *Newark*
.155 Madison
.156 Franklin
.157 *Columbus*
.158 Fairfield
.159 Perry

.16 Central east counties

.161 Wayne
.162 Stark
1 *Canton*
3 *Massillon*
.163 Columbiana
1 *East Liverpool*
.164 Holmes
.165 Coshocton
.166 Tuscarawas
.167 Carroll
.168 Harrison
.169 Jefferson
1 *Steubenville*

Ohio

977.17 Southwest counties
.171 Preble
.172 Montgomery
.173 *Dayton*
.174 Greene
.175 Butler
1 *Hamilton* (city)
.176 Warren
5 Clinton
.177 Hamilton
.178 *Cincinnati*
.179 Clermont
6 Brown

.18 Central south counties
.181 Fayette
5 Pickaway
.182 Ross
1 *Chillicothe*
.183 Hocking
7 Vinton
.184 Highland
7 Pike
.185 Jackson
.186 Adams
.187 Scioto
1 *Portsmouth*
.188 Lawrence
1 *Ironton*
.189 Gallia

.19 Southeast counties
.191 Muskingum
1 *Zanesville*
.192 Guernsey
.193 Belmont
.194 Morgan
.195 Noble
.196 Monroe
.197 Athens
.198 Washington
1 *Marietta*
.199 Meigs

977.2 **Indiana**
1809 Indiana territory with present boundaries establisht
11 Dec. 1816, Indiana admitted as 19th state
92 counties Area 36,350 sq. mi
Sobriquet: Hoosier state Capital: Indianapolis

.21 Southeast counties
.211 Dearborn
.212 Ohio
5 Switzerland
.213 Jefferson
.214 Ripley
.215 Franklin
.216 Decatur
.217 Jennings
.218 Scott
5 Clark
6 *Jeffersonville*
.219 Floyd
New Albany

.22 Central south counties
.221 Harrison
.222 Washington
.223 Jackson
.224 Bartholomew
.225 Brown
5 Monroe
.226 Lawrence
.227 Orange
.228 Crawford
.229 Perry

.23 Southwest counties
.231 Spencer
.232 Warrick
.233 Vanderburg
Evansville
.234 Posey
.235 Gibson
.236 Pike
.237 Dubois
.238 Martin
5 Daviess
.239 Knox

.24 West central counties
.241 Sullivan
.242 Greene
.243 Owen
.244 Clay
.245 Vigo
Terre Haute
.246 Vermilion
5 Parke
.247 Fountain
.248 Montgomery
.249 Putnam

Indiana

977.25 Central counties
.251 Morgan
5 Johnson
.252 Marion
Indianapolis
.253 Hendricks
.254 Boone
.255 Clinton
5 Tipton
.256 Hamilton
.257 Madison
Anderson
.258 Hancock
.259 Shelby
.26 East central counties
.261 Rush
.262 Fayette
5 Union
.263 Wayne
Richmond
.264 Henry
.265 Delaware
Muncie
.266 Randolph
.267 Jay
.268 Blackford
.269 Grant
.27 Northeast counties
.271 Huntington
.272 Wells
.273 Adams
.274 Allen
Fort Wayne
.275 Whitley
.276 Noble
.277 Dekalb
.278 Steuben
.279 Lagrange
.28 Central north counties
.281 Elkhart
.282 Kosciusko
.283 Wabash
.284 Miami
.285 Howard
.286 Cass
Logansport
.287 Fulton
.288 Marshall
.289 St Joseph
South Bend

Indiana

977.29 Northwest counties
.291 Laporte
Michigan City
.292 Starke
5 Pulaski
.293 White
.294 Carroll
.295 Tippecanoe
Lafayette
.296 Warren
.297 Benton
4 Newton
7 Jasper
.298 Porter
.299 Lake

.3 Illinois

1809 Illinois territory formd 3 Dec. 1818 Illinois admitted as 21st state
Area 56,043 sq. mi. 102 counties
Sobriquet: Prairie state Capital: Springfield

.31 Cook
.311 *Chicago*
.32 Northeast counties
.321 Lake
.322 McHenry
.323 Kane
Aurora
Elgin
.324 DuPage
.325 Will
Joliet
.326 Kendall
5 Grundy
.327 LaSalle
Streator
.328 Dekalb
.329 Boone
.33 Northwest counties
.331 Winnebago
Rockford
.332 Ogle
.333 Stephenson
Freeport
.334 Jo Daviess
5 Carroll
.335 Whiteside
.336 Lee
.337 Bureau
5 Putnam
.338 Henry
.339 Rock Island
Rock Island (city)
Moline
5 Mercer

Illinois

977.34 West central counties
- .341 Henderson
- 5 Warren
- .342 McDonough
- .343 Hancock
- .344 Adams
  - *Quincy*
- .345 Pike
- 5 Scott
- .346 Morgan
  - *Jacksonville*
- 5 Cass
- .347 Brown
- 5 Schuyler
- .348 Fulton
- .349 Knox

35 Central counties
- .351 Stark
- 5 Marshall
- .352 Peoria
  - *Peoria* (city)
- .353 Woodford
- .354 Tazewell
- .355 Mason
- 5 Menard
- .356 Sangamon
  - *Springfield*
- .357 Logan
- .358 Macon
  - *Decatur*
- 5 Dewitt
- .359 McLean
  - *Bloomington*

.36 East central counties
- .361 Livingston
- .362 Ford
- .363 Kankakee
- .364 Iroquois
- .365 Vermilion
  - *Danville*
- .366 Champaign
- .367 Piatt
- 5 Moultrie
- .368 Douglas
- .369 Edgar

Illinois

977.37 Southeast counties
- .371 Clark
- .372 Coles
- .373 Cumberland
- .374 Jasper
- .375 Crawford
- .376 Lawrence
- .377 Richland
- .378 Wabash
- .379
  - 1 Edwards
  - 2 Wayne
  - 3 Jefferson
  - 4 Marion
  - 5 Clay
  - 6 Effingham
  - 7 Fayette
  - 8 Shelby

.38 Southwest counties
- .381 Christian
- .382 Montgomery
- .383 Macoupin
- .384 Greene
- .385 Calhoun
- 5 Jersey
- .386 Madison
  - *Alton*
- .387 Bond
- 5 Clinton
- .388 Washington
- .389 St Clair
  - *Belleville*
  - *East St Louis*

.39 Southern counties
- .391 Monroe
- .392 Randolph
- .393 Perry
- .394 Franklin
- .395 Hamilton
- .396 White
- .397 Gallatin
- .398 Hardin
- .399
  - 1 Pope
  - 2 Saline
  - 3 Williamson
  - 4 Jackson
  - 5 Union
  - 6 Johnson
  - 7 Massac
  - 8 Pulaski
  - 9 Alexander
    - *Cairo*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 sq. mi.
83 counties
Sobriquets: Wolverine, Lake state Capital: Lansing

Lower peninsula

.41 Southwest counties
.411 Berrien
.412 Cass
.413 Van Buren
.414 Allegan
.415 Ottawa
.416 Barry
.417 Kalamazoo
.418 *Kalamazoo* (city)
.419 St Joseph
.42 Central south counties
.421 Branch
.422 Calhoun
Battle Creek
.423 Eaton
.424 Clinton
.425 Shiawassee
.426 Ingham
.427 *Lansing*
.428 Jackson
Jackson (city)
.429 Hillsdale
.43 Southeast counties
.431 Lenawee
.432 Monroe
.433 Wayne
.434 *Detroit*
.435 Washtenaw
.436 Livingston
.437 Genesee
.438 Oakland
.439 Macomb
.44 Southeast central counties
.441 St Clair
Port Huron
.442 Lapeer
.443 Sanilac
.444 Huron
.445 Tuscola
.446 Saginaw
Saginaw (city)
.447 Bay
Bay City
West Bay City
Annext to Bay City in April 1905
.448 Midland
.449 Gratiot

Michigan

977.45 Southwest central counties

.451 Isabella
.452 Mecosta
.453 Montcalm
.454 Ionia
.455 Kent
.456 *Grand Rapids*
.457 Muskegon
Muskegon (city)
.458 Newaygo
.459 Oceana
.46 Northwest central counties
.461 Mason
.462 Manistee
Manistee (city)
.463 Benzie
5 Leelanau
.464 Grand Traverse
.465 Kalkaska
.466 Missaukee
.467 Wexford
.468 Lake
.469 Osceola
.47 Northeast central counties
.471 Clare
.472 Gladwin
.473 Arenac
.474 Iosco
.475 Ogemaw
.476 Roscommon
.477 Crawford
.478 Oscoda
.479 Alcona
.48 Northern counties
.481 Alpena
.482 Presque Isle
.483 Montmorency
.484 Otsego
.485 Antrim
.486 Charlevoix
.487 Cheboygan
.488 Emmet
489 Manitou
Annext to Charlevoix and Leelanau in 1890

Michigan

977.49 **Upper peninsula**

- .491 Chippewa
- .492 Mackinac
- 5 Luce
- .493 Alger
- 5 Schoolcraft
- .494 Delta
- .495 Menominee
  - *Menominee* (city)
- 5 Dickinson
- .496 Marquette
  - *Ishpeming*
- .497 Baraga
- 5 Iron
- .498 Gogebic
- 5 Ontonagon
- .499 Houghton
- 5 Keweenaw
- 7 Isle Royale
  - Annext to Keweenaw in 1897

.5 Wisconsin

1836 organized as territory
29 May 1848, admitted as 30th state Area 56,040 sq. mi.
71 counties
Sobriquet: Badger state Capital: Madison

- .51 Northwest counties
- .511 Douglas
  - .512 *Superior*
- .513 Bayfield
- .514 Burnett
- .515 Washburn
- .516 Sawyer
- .517 Polk
- .518 Barron
- .519 Rusk (formerly Gates)
  - Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901
- .52 Central north counties
- .521 Ashland
  - *Ashland* (city)
- .522 Iron
- .523 Vilas
- .524 Price
- .525 Oneida
- .526 Taylor
- .527 Lincoln
- .528 Clark
- 529 Marathon
  - *Wausau*

Wisconsin

977.53 Northeast counties

- .531 Forest
- .532 Florence
- .533 Marinette
  - 534 *Marinette* (city)
- .535 Langlade
- .536 Shawano
- .537 Oconto
- .538 Waupaca
- .539 Outagamie
  - *Appleton*
- .54 Central west counties
- .541 St Croix
- .542 Pierce
- .543 Dunn
- .544 Chippewa
- .545 Eau Claire
  - .546 *Eau Claire* (city)
- .547 Pepin
- .548 Buffalo
- .549 Trempealeau
- .55 Central counties
- .551 Jackson
- .552 Wood
- .553 Portage
- .554 Monroe
- .555 Juneau
- .556 Adams
- .557 Waushara
- .558 Marquette
- .559 Green Lake
- 56 Central east counties
- .561 Brown
  - *Green Bay* (city)
- .562 Kewaunee
- .563 Door
- .564 Winnebago
  - 565 *Oshkosh*
- .566 Calumet
- .567 Manitowoc
  - *Manitowoc* (city)
- .568 Fond du Lac
  - *Fond du Lac* (city)
- .569 Sheboygan
  - *Sheboygan* (city)

Wisconsin

977.57 Southwest counties
- .571 La Crosse
- .572 *La Crosse* (city)
- .573 Vernon
- .574 Crawford
- .575 Richland
- .576 Sauk
- .577 Grant
- .578 Iowa
- .579 Lafayette

.58 Central south counties
- .581 Columbia
- .582 Dodge
- .583 Dane
- .584 *Madison*
- .585 Jefferson
- .586 Green
- .587 Rock
- *Janesville*
- .588 *Beloit*
- .589 Walworth

.59 Southeast counties
- .591 Washington
- .592 Ozaukee
- .593 Waukesha
- .594 Milwaukee
- .595 *Milwaukee* (city)
- .596 Racine
- .597 *Racine* (city)
- .598 Kenosha
- .599 *Kenosha* (city)

977.6 Minnesota

3 Mar. 1849, organized as territory from Northwest territory (977) and Louisiana purchase (978; see also 976.3 Louisiana). 11 May 1858, east part admitted as 32d state; west part merged in Dakota territory (978.3) 1861. Area 80,858 sq.mi. 87 counties. Sobriquet: Gopher state. Capital: St Paul (977.6581)

.61 Southeast counties
- .611 Houston
- .612 Winona
- .613 Wabasha
- .614 Goodhue
- .615 Dodge
- 5 Olmsted
- .616 Fillmore
- .617 Mower
- .618 Freeborn
- .619 Steele
- 5 Waseca

.62 Southwest counties
- .621 Blue Earth
- .622 Faribault
- .623 Martin
- 5 Jackson
- .624 Nobles
- .625 Rock
- .626 Pipestone
- .627 Murray
- .628 Cottonwood
- .629 Watonwan

.63 Southwest central counties
- Minnesota River valley
- .631 Brown
- .632 Nicollet
- .633 Sibley
- .634 Renville
- .635 Redwood
- .636 Lyon
- 5 Lincoln
- .637 Yellow Medicine
- .638 Lac Qui Parle
- .639 Chippewa

.64 West central counties
- .641 Swift
- .642 Stevens
- .643 Big Stone
- 5 Traverse
- .644 Grant
- .645 Douglas
- .646 Pope
- .647 Stearns
- .648 Kandiyohi
- .649 Meeker

.65 Southeast central counties
- .651 Wright
- .652 McLeod
- .653 Carver
- .654 Scott
- .655 LeSeuer
- 5 Rice
- .656 Dakota
- .657 Hennepin
- 9 *Minneapolis*
- .658 Ramsey
- 1 *St Paul*
- .659 Washington

Minnesota

977.66 East central counties
- .661 Chisago
- .662 Pine
- .663 Kanabec
- .664 Isanti
- .665 Anoka
- .666 Sherburne
- .667 Benton
- .668 Mille Lacs
- .669 Morrison

.67 Northeast counties
- .671 Crow Wing
- .672 Aitkin
- .673 Carlton
- **.674 Lake Superior counties**
  - .675 Cook
  - .676 Lake
  - .677 St Louis
    - 1 *Duluth*
- .678 Itasca
- .679 Koochiching

.68 North central counties
- .681 Lake of the Woods
- .682 Beltrami
- .683 Clearwater
- .684 Becker
- .685 Hubbard
- .686 Cass
- .687 Wadena
- .688 Todd
- .689 Ottertail

.69 Northwest counties
- .691 Wilkin
- .692 Clay
- .693 Norman
- .694 Mahnomen
- .695 Polk
- .696 Red Lake
- 5 Pennington
- .697 Marshall
- .698 Roseau
- .699 Kittson

.7 Iowa

12 June 1838, organized as a territory
28 Dec. 1846, admitted as 29th state Area 56,025 sq. mi.
99 counties
Sobriquet: Hawkeye state Capital: Des Moines

Iowa

977.71 Northwest counties
- .711 Lyon
- 6 Osceola
- .712 Dickinson
- 5 Emmet
- .713 Sioux
- .714 O'Brien
- .715 Clay
- 5 Palo Alto
- 716 Plymouth
- 717 Cherokee
- .718 Buena Vista
- .719 Pocahontas

.72 Central north counties
- .721 Kossuth
- .722 Winnebago
- .723 Worth
- 4 Mitchell
- .724 Hancock
- .725 Cerro Gordo
- .726 Floyd
- .727 Humboldt
- 4 Wright
- .728 Franklin
- .729 Butler

.73 Northeast counties
- .731 Howard
- 5 Chickasaw
- .732 Winneshiek
- .733 Allamakee
- .734 Bremer
- .735 Fayette
- .736 Clayton
- .737 Blackhawk
  - 1 *Waterloo*
- .738 Buchanan
- 5 Delaware
- .739 Dubuque
  - 1 *Dubuque* (city)

.74 Central west counties
- .741 Woodbury
  - 1 *Sioux City*
- .742 Ida
- 4 Sac
- .743 Calhoun
- .744 Monona
- .745 Crawford
- .746 Carroll
- 6 Greene
- .747 Harrison
- .748 Shelby
- 6 Audubon
- .749 Guthrie

Iowa

977.75 Central counties
.751 Webster
1 *Fort Dodge*
.752 Hamilton
.753 Hardin
7 Grundy
.754 Boone
6 Story
.755 Marshall
1 *Marshalltown*
.756 Tama
.757 Dallas
.758 Polk
1 *Des Moines*
.759 Jasper
6 Poweshiek
.76 Central east counties
.761 Benton
.762 Linn
1 *Cedar Rapids*
.763 Jones
.764 Jackson
.765 Iowa
5 Johnson
.766 Cedar
.767 Clinton
1 *Clinton* (city)
.768 Muscatine
1 *Muscatine* (city)
.769 Scott
1 *Davenport*
.77 Southwest counties
.771 Pottawattamie
1 *Council Bluffs*
.772 Cass
.773 Adair
.774 Mills
.775 Montgomery
.776 Adams
.777 Fremont
.778 Page
.779 Taylor
.78 Central south counties
.781 Madison
.782 Warren
.783 Marion
.784 Mahaska
.785 Union
6 Clarke
.786 Lucas
5 Monroe
.787 Ringgold
5 Decatur
.788 Wayne
.789 Appanoose

Iowa

977.79 Southeast counties
.791 Keokuk
.792 Washington
6 Louisa
.793 Wapello
1 *Ottumwa*
.794 Jefferson
.795 Henry
.796 Des Moines
1 *Burlington*
.797 Davis
.798 Van Buren
.799 Lee
1 *Keokuk* (city)

.8 Missouri

7 Dec. 1812, organized as a territory 10 Aug. 1821, admitted as 24th state
Area 69,415 sq. mi. 114 counties and St Louis
Sobriquets: Bullion state, Iron state Capital: Jefferson City

.81 Northwest counties
.811 Atchison
5 Holt
.812 Nodaway
6 Andrew
.813 Buchanan
1 *St Joseph*
5 Platte
.814 Worth
5 Gentry
.815 Dekalb
5 Clinton
.816 Clay
.817 Harrison
.818 Daviess
5 Caldwell
.819 Ray
.82 Central north counties
.821 Mercer
5 Grundy
.822 Livingston
5 Carroll
.823 Putnam
5 Sullivan
.824 Linn
.825 Chariton
.826 Schuyler
4 Adair
.827 Macon
.828 Randolph
1 *Moberly*
5 Howard
.829 Boone

Missouri

977.83 Northeast counties
.831 Scotland
5 Knox
.832 Shelby
5 Monroe
.833 Audrain
5 Callaway
.834 Clark
5 Lewis
.835 Marion
1 *Hannibal*
5 Ralls
.836 Pike
.837 Lincoln
.838 Montgomery
6 Warren
.839 St Charles
.84 Central west counties
.841 Jackson
1 *Kansas City*
.842 Cass
.843 Bates
.844 Vernon
.845 Lafayette
5 Johnson
.846 Henry
6 St Clair
.847 Saline
.848 Pettis
1 *Sedalia*
.849 Benton
6 Hickory
.85 Central counties
.851 Cooper
.852 Moniteau
.853 Morgan
.854 Camden
.855 Cole
1 *Jefferson City*
.856 Miller
.857 Pulaski
.858 Osage
.859 Maries
4 Phelps
.86 Central east counties
.861 Gasconade
.862 Crawford
.863 Franklin
.864 Washington
.865 St Louis
.866 *St Louis* (city)
.867 Jefferson
.868 St François
.869 Ste Genevieve
4 Perry

Missouri

977.87 Southwest counties
.871 Barton
.872 Jasper
1 *Joplin*
2 *Webb City*
.873 Newton
6 McDonald
.874 Cedar
5 Dade
.875 Lawrence
.876 Barry
.877 Polk
.878 Greene
1 *Springfield*
.879 Christian
4 Stone
7 Taney
.88 Central south counties
.881 Dallas
5 Laclede
.882 Webster
5 Wright
.883 Douglas
5 Ozark
.884 Texas
.885 Howell
.886 Dent
.887 Shannon
5 Oregon
.888 Iron
5 Reynolds
.889 Carter
4 Ripley
.89 Southeast counties
.891 Madison
.892 Wayne
.893 Butler
.894 Bollinger
.895 Stoddard
.896 Cape Girardeau
.897 Scott
.898 Mississippi
5 New Madrid
.899 Dunklin
6 Pemiscot

.9

978 Western or Mountain

Including general works on 'the West'

.1 Kansas

1541 explored by Spanish
30 May 1854 organized as separate territory, after successiv inclusion in Louisiana and Missouri territories 29 Jan. 1861 admitted as 34th state
Area 81,774 sq. mi. 105 counties
Sobriquets: Garden of the west, Sunflower state Capital: Topeka

.11 Northwest counties
.111 Cheyenne
5 Sherman
.112 Wallace
5 Rawlins
.113 Thomas
5 Logan
.114 Decatur
5 Sheridan
.115 Gove
5 Norton
.116 Graham
5 Trego
.117 Phillips
.118 Rooks
.119 Ellis
1 *Hays*

.12 Central north counties
.121 Smith
5 Osborne
.122 Jewell
.123 Mitchell
.124 Republic
.125 Cloud
.126 Ottawa
.127 Washington
5 Clay
.128 Riley
1 *Manhattan*
.129 Geary
1 *Fort Riley*

.13 Northeast counties
.131 Marshall
.132 Pottawatomie
.133 Nemaha
5 Jackson
.134 Brown
.135 Doniphan
.136 Atchison
1 *Atchison*
.137 Jefferson
.138 Leavenworth
1 *Leavenworth* (city)
.139 Wyandotte
1 *Kansas City*

Kansas

978.14 Central west counties
.141 Greeley
5 Hamilton
.142 Wichita
5 Kearney
.143 Scott
.144 Finney
.145 Lane
.146 Ness
.147 Hodgeman
.148 Rush
.149 Pawnee
1 *Larned*

.15 Central counties
.151 Russell
.152 Barton
.153 Lincoln
5 Ellsworth
.154 Rice
5 Saline
6 *Salina*
.155 McPherson
.156 Dickinson
.157 Marion
.158 Morris
1 *Council Grove*
.159 Chase

.16 Central east counties
.161 Wabaunsee
.162 Lyon
1 *Emporia*
.163 Shawnee
1 *Topeka*
.164 Osage
5 Coffey
.165 Douglas
1 *Lawrence*
.166 Franklin
.167 Anderson
5 Johnson
.168 Miami
1 *Osawatomie*
.169 Linn

Kansas

978.17 Southwest counties
.171 Stanton
5 Morton
.172 Grant
5 Stevens
.173 Haskell
5 Seward
.174 Gray
.175 Meade
.176 Ford
1 *Dodge City*
.177 Clark
.178 Edwards
5 Kiowa
.179 Comanche
.18 Central south counties
.181 Stafford
5 Pratt
.182 Barber
1 *Medicine Lodge*
.183 Reno
1 *Hutchinson*
.184 Kingman
5 Harper
.185 Harvey
.186 Sedgwick
1 *Wichita*
.187 Sumner
.188 Butler
1 *Eldorado*
.189 Cowley
1 *Arkansas City*
.19 Southeast counties
.191 Greenwood
5 Elk
8 Chautauqua
.192 Woodson
5 Wilson
.193 Montgomery
1 *Independence*
2 *Coffeyville*
.194 Allen
.195 Neosho
1 *Chanute*
.196 Labette
1 *Parsons*
.197 Bourbon
1 *Fort Scott*
.198 Crawford
1 *Pittsburg*
.199 Cherokee

978.2 Nebraska

30 May 1854 territory organized out of Missouri territory (977.8); 1 Mar. 1867 admitted as 37th state. Area 77,520 sq.mi. 93 counties. Sobriquets: Antelope, Blackwater, Bug eater, Cornhusker or Tree planters' state. Capital: Lincoln (978.2291). Platte River valley; for North Platte see 978.7. South Platte 978.871

.21 Eastern Nebraska Loess and drift region Prairie counties

.22 Missouri River and drift hils section

.221 **Northeast counties**

.222 Dixon 4 Dakota

7 Thurston

Organized as Blackbird co. 1855. Annext to Dakota co. and Omaha Indian reservation 1856. Reorganized as Thurston 1889. Includes former Omaha and Winnebago Indian reservations

.223 Cuming .224 Burt

5 Dodge 5 Washington

6 *Fremont*

.225 Douglas 1 *Omaha* Territorial and state capital 1855–68

6 Sarpy 7 *Bellevue* Oldest town in Nebraska; 1st territorial capital 1854

.226 **Southeast counties** **Til or drift hils area**

.227 Cass 3 Otoe Arbor Lodge (Morton) state park

Organized as Pierce co. 1854 (For present Pierce co. see 978.256) Name changed to Ottoe 1855 and to Otoe 1856

6 Johnson 8 Nemaha

Organized as Forney co. 1854. Name changed to Nemaha 1855

.228 Richardson 4 Pawnee

6 Gage

Clas here also former Jackson co., organized 1855, abolisht 1856. Includes former Otoe Indian reservation

7 *Beatrice*

.229 Lancaster

Clas here also former Clay co., organized 1855, divided, 1864, between Lancaster and Gage. For present Clay co. see 978.2357

1 *Lincoln*

Founded as Lancaster 1859. Designated as state capital and name changed to Lincoln 1867. Occupied as capital 1869

6 Saunders Todd Valley

Organized as Calhoun co. 1856. Name changed to Saunders 1862

Nebraska

978.23 South central counties Loess plains Nebraska plain

Clas here general works on southern Nebraska and South Platte section

.231 **Blue River area**

Big and Little Blue Rivers. Most of this area cald Jones co. in 1854 but never organized as such. For Jones co. as organized see 978.233

.232 Butler 4 Seward

Organized as Greene co. 1855. Name changed to Seward 1862

7 Saline

Clas here also former Johnston co., organized 1855, abolisht 1857

.233 Jefferson

Organized as Jones co. 1856. Original Jefferson co. (now Thayer, 978.2335) organized 1856, enlarjd to include Jones 1867

5 Thayer .235 Polk

.234 Fillmore 4 Hamilton

5 York 7 Clay For original Clay co. see 978.229 Lancaster co.

.236 **Republican River area**

.237 Nuckolls Bostwick game and bird preserv

4 Webster .2384 Furnas

7 Franklin 7 Gosper

.238 Harlan .239 Phelps

.2394 Kearney Ft Kearney state historical park

7 Adams 8 *Hastings*

.24 Central counties

Platte valley plain, Loup River area

.241 Hall Grand Island, Stolley state park

1 *Grand Island* (city)

.242 Merrick

5 Nance

Organized from Pawnee Indian reservation 1879

.243 Howard .245 Buffalo

.244 Sherman .246 Dawson

.247 Custer Victoria Springs state park

Clas here also Garber and Kountze cos. as proposed 1875

.248 Valley .249 Greeley

Nebraska

978.25 Northeast central counties Loess hils section

Elkhorn River area

.251 Boone

.252 Platte

Clas here also former Monroe co., organized 1856, added to Platte co. 1859; and original Loup co., organized 1855, abolisht 1856. For prezent Loup co. see 978.2767

.253 Colfax

5 Stanton

Organized as McNeale co. 1855. Absorbed by reorganized Izard co. 1856 (Original Izard co., organized 1855, embraced most of prezent Wayne and Cedar cos., 978.257–.258) Name changed to Stanton 1862

.254 Madison 1 *Norfolk* .255 Antelope

.256 Pierce

For original Pierce co. see 978.2273 Otoe co.

.257 Wayne .258 Cedar

.259 Knox

Organized as L'Eau qui Court Co. 1857. Name changed to Knox 1873 (Suggested change to Emmet, 1867, not accepted). Includes former Santee Indian reservation

.26 Western Nebraska Great plains counties

.27 Sand hils region North central counties

Clas here general works on northern Nebraska

.271 **Niobrara River section**

Also cald L'Eau qui Court or Running Water River

.272 Boyd Twin Buttes

5 Keyapaha Springview Table

.273 Cherry Niobrara national forest and game reserv

6 Brown .274 Rock

.2745 Holt Holt Table

Clas here also West co., establisht 1860 but never organized

.275 **Southern sand hils section**

.276 Wheeler 4 Garfield

7 Loup For original Loup co. see 978.252 Platte co.

.277 Blaine 4 Thomas Dismal River or Halsey national forest

7 Hooker .278 Grant

.2785 Arthur Includes former North Platte forest reserv

.279 McPherson 5 Logan

Nebraska

978.28 Southwest counties

.281 **Loess canyons section**

.282 Lincoln

Organized as Shorter co. 1860. Name changed to Lincoln 1861

Brady Island, Ft McPherson military cemetery, Lincoln co. game and bird preserv

1 *North Platte* .284 Redwillow

.283 Hayes 1 *McCook*

5 Frontier 5 Hitchcock

.285 **Perkins Plain section**

.286 Dundy .288 Perkins

.287 Chase .289 Keith

.29 Northwest counties High plains region Panhandle

.291 Deuel 5 Garden Crescent Lake migratory bird refuge

.292 Sheridan Clas here also proposed Kersey co.

.293 Dawes

Dawes Table, Pine Ridge, Crow and Trunk Buttes. Chadron state park

.294 Box Butte Box Butte Plains

.295 Morrill

North Platte Plain, Stone Hils. Castle, Chimney, Courthouse and Jail Rocks

.296 Cheyenne Cheyenne Plains

Clas here former unorganized Taylor co. which included most of present Cheyenne, Deuel, Garden and Morrill cos.

.297 Kimball

Clas here also proposed Potter co., and former unorganized Lyons co. which included present Kimball, Banner and Scotts Bluff cos.

5 Banner

Wildcat Mt and Range, Bighorn and Hogback Mts

.298 Scotts Bluff *Scottsbluff* (city)

Scotts Bluff national monument, Bald Peak, Signal Butte, North Platte bird reservation

.299 Sioux

Bad Lands, Pierre and White River Plains, Lookout and Pine Buttes

.3 **South Dakota** Including works on Dakota as a whole

2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 76,868 sq.mi. 68 counties
Sobriquet: Coyote state Capital: Pierre

978.4 **North Dakota**

2 Nov. 1889 admitted as 39th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 70,183 sq.mi. 53 counties
Sobriquet: Flickertail state Capital: Bismarck

.5

.6 **Montana**

26 May 1864 territory organized. Name means Mountain land
8 Nov. 1889 admitted as 41st state
Area 146,201 sq.mi. 51 counties
Sobriquet: Treasure state Capital: Helena

.7 **Wyoming**

25 July 1868 Wyoming territory organized
10 July 1890 admitted as 44th state
Area 97,594 sq.mi. 21 counties and Yellowstone national park
Sobriquet: Stub Toe state Capital: Cheyenne

.8 **Colorado**

1859–61 proposed territory and state of Jefferson. 28 Feb. 1861 Colorado territory organized. 1 Aug. 1876 admitted as 38th state. Area 103,948 sq.mi. 63 counties. Sobriquets: Centennial or Silver state. Capital: Denver (978.883)

.81 Colorado plateaus Western Colorado

.811 Northern plateau region Northwest counties

Colorado or Grand River valley

.812 Moffat

.814 Routt Elk Head Mts, Routt national forest

.815 Rio Blanco White River national forest

.816 Garfield Roan or Book Plateau

.817 Mesa 1 *Grand Junction*

Grand Mesa, Colorado national monument, Grand Mesa or Battlement national forest

.818 Delta

.819 Montrose Uncompahgre Plateau and national forest

.82 Southern plateau region Southwest counties

.822 Ouray .825 San Juan

.823 San Miguel .826 Dolores

.827 Montezuma

Mesa Verde, Mesa Verde national park, Yucca House national monument, Montezuma national forest, Ute Indian reservation

.829 La Plata La Plata Mts

Colorado

978.83 Rocky Mountain region Central Colorado
Colorado Rockies, Continental divide. Clas general works on Rocky Mts in 978

.831 Southern Colorado Rockies South central counties
Rio Grande national forest

.832 Archuleta San Juan or Durango national forest
.833 Conejos Organized as Guadaloupe
.835 Costilla Sangre de Cristo grant
.836 Alamosa
.837 Rio Grande
.838 Mineral San Juan Mts, Wheeler national monument
.839 Hinsdale

.84 West central Colorado Rockies
Saguache or Sawatch Range

.841 Gunnison Elk Mts, Gunnison national forest
.843 Pitkin Sopris national forest
.844 Eagle Mt of the Holy Cross, Holy Cross national forest
.845 Summit Gore Range
.846 Lake
Mts Elbert and Massive, Twin Lakes, Leadville Basin, Leadville national forest
.847 Chaffee
.849 Saguache
Sangre de Cristo Range, San Luis Park or Valley, Cochetopa national forest

.85 East central Colorado Rockies

.851 Huerfano Huerfano Park
.852 Custer Wet Mts, San Isabel national forest
.853 Fremont
Royal Gorge of the Arkansas. See also 978.89 Arkansas River valley in Colo.

.855 Pueblo 1 *Pueblo* (city)
.856 El Paso 1 *Colorado Springs*
Pikes Peak, Garden of the Gods
.858 Teller *Cripple Creek*
.859 Park
Mosquito or South Park Range, South Park, Pike national forest

.86 Northern Colorado Rockies North central counties

.861 Clear Creek
.862 Gilpin
.863 Boulder
1 *Boulder* (city)
.865 Grand
Front, Snowy or Rampart Range, Middle Park, Grand Lake, Arapahoe national forest
.866 Jackson Park and Rabbit Ears Ranges, North Park
.868 Larimer 1 *Fort Collins*
Medicine Bow and Laramie Ranges, Colorado national forest
.869 Rocky Mountain national park Estes Park Longs Peak

Colorado

978.87 Great plains region Eastern Colorado
Clas general works on Great plains in 978

.871 Northern Colorado Great plains Northeast counties
Clas here general works on northern Colorado. South Platte valley. Clas here general works on South Platte; see also 978.2 Platte River, Neb.

.872 Weld
1 *Greeley*
.874 Morgan
.875 Logan
.876 Sedgwick
877 Phillips
.878 Yuma
.879 Washington

.88 West central Colorado Great plains

.881 Adams
.882 Arapahoe
.883 Denver (co. and city)
.884 Jefferson Denver mountain parks
.886 Douglas
.887 Elbert
.889 Lincoln

.89 Southern Colorado Great plains Southeast counties
Clas here general works on southern Colorado. Arkansas River valley. Clas general works on Arkansas River in 976.73; see also 978.853 Royal Gorge of the Arkansas

.891 Kit Carson
.892 Cheyenne
.893 Kiowa
.894 Crowley
.895 Otero
.896 Las Animas 1 *Trinidad*
Culebra Range, Spanish Peaks
.897 Bent
.898 Prowers
.899 Baca

.9 New Mexico
2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase
6 Jan. 1912 admitted as 47th state Area 122,503 sq.mi.
29 counties Capital: Santa Fé

979 Pacific

.1 Arizona
2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853
24 Feb. 1863 territory organized 14 Feb. 1912 admitted as 48th state
Area 113,810 sq.mi. 14 counties
Sobriquets: Valentine, Hassayampa state Capital: Phoenix

.2 Utah
2 Feb. 1848 ceded by Mexico 9 Sep. 1850 territory organized
4 Jan. 1896 admitted as 45th state
Area 82,184 sq.mi. 29 counties
Sobriquet: Salt Lake state Capital: Salt Lake City

.3 Nevada
2 Mar. 1861 territory organized 31 Oct. 1864 admitted as 36th state
Area 109,821 sq.mi. 17 counties
Sobriquet: Silver state Capital: Carson City

979.4 California

Admitted 9 Sep. 1850, as 31st state Area 155,652 sq. mi.
58 counties
Sobriquet: Golden state Capital: Sacramento

Northern or Superior California

Use 979.41 as a general number, including .41–.43

.41 Coast range counties, north
.411 Del Norte
.412 Humboldt
.414 Trinity
.415 Mendocino
.417 Lake
.418 Sonoma
.419 Napa

.42 Northeast counties
.421 Siskiyou
.423 Modoc
.424 Shasta
.426 Lassen
.427 Tehama
.429 Plumas

.43 North central counties
.431 Glenn
.432 Butte
.433 Colusa
.434 Sutter
.435 Yuba
.436 Sierra
.437 Nevada
.438 Placer

Central California

Use 979.44 as a general number, including .44–.48

.44 East central counties
.441 El Dorado
.442 Amador
.443 Alpine
.444 Calaveras
.445 Tuolumne
.446 Mariposa
.447 *Yosemite*
.448 Mono

.45 Central counties Sacramento valley
.451 Yolo
.452 Solano
.453 Sacramento
.454 *Sacramento* (city)
.455 San Joaquin
.456 *Stockton*
.457 Stanislaus
.458 Merced

California

979.46 West central counties San Francisco group

.461 San Francisco co. and city
.462 Marin
.463 Contra Costa
.465 Alameda
Alameda (city)
.466 *Oakland*
.467 *Berkeley*
.469 San Mateo

.47 Coast range counties, south
.471 Santa Cruz
.473 Santa Clara
.474 *San José*
.475 San Benito
.476 Monterey
.478 San Luis Obispo

.48 South central counties
.481 Madera
.482 Fresno
.483 *Fresno* (city)
.485 Kings
.486 Tulare
.487 Inyo
.488 Kern

Southern California

.49 Southern counties
.491 Santa Barbara
Ilands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara
.492 Ventura
Ilands: Anacapa, San Nicholas
.493 Los Angeles
Ilands: Santa Catalina, San Clemente
.494 *Los Angeles* (city)
.495 San Bernardino
.496 Orange
.497 Riverside
.498 San Diego
San Diego (city)
.499 Imperial

979.5 Oregon

14 Aug. 1848 territory organized. 14 Feb. 1859 admitted as 33d state. Area 96.699 sq.mi. 36 counties. Sobriquets: Beaver or Webfoot state. Capital: Salem (979.5371)

Clas here general works on Pacific northwest

.51 Western Oregon

Cascade Range, Coast ranges. Clas here general works on Cascade Mts; see also 979.75 Cascade Mts in Wash.

.52 Southwest counties

Southern Oregon, organized as Umpqua co. 1851. Southern coast region, Rogue River valley, Klamath Mts

.521 Curry Siskiyou national forest

.523 Coos Rogue River mts, Coos Bay

.525 Josephine

Siskiyou Mts, Oregon Caves national monument (Josephine co. caves, Marble Caves)

.527 Jackson Crater national forest 1 *Medford*

.529 Douglas

Umpqua River valley, Calapooia Mts, Umpqua national forest

.53 West central counties Willamette valley Central coast region

.531 Lane

Three Sisters, McKenzie River, Cascade and Siuslaw national forests

1 *Eugene* .534 Benton Mary's Peak

.533 Lincoln Yaquina Bay 1 *Corvallis*

.535 Linn

Mt Jefferson, Santiam River, Santiam national forest

.537 Marion 1 *Salem*

Cald Champoeg (Champooick) til 1849. Champoeg park

.538 Polk Yamhill Mts .539 Yamhill Chehalem Mts

.54 Northwest counties Northern coast region Lower Columbia valley

Clas general works on Columbia River in 979.73

.541 Clackamas 1 *Oregon City*

Oregon or Mt Hood national forest

.543 Washington Cald Tuality (Twality) til 1849

.544 Tillamook .547 Columbia

.546 Clatsop .549 Multnomah

1 *Astoria* 1 *Portland*

Oregon

979.55 Eastern Oregon

.56 North central counties Columbia Plateau

Clas general works on Columbia River and Plateau in 979.73. Deschutes and John Day River valleys

.561 Hood River Mt Hood

.562 Wasco

Mutton Mts, Dalles of the Columbia, Warm Springs Indian reservation

1 *The Dalles* (city)

.564 Sherman .565 Gilliam .567 Morrow

.569 Umatilla 1 *Pendleton*

Umatilla Indian reservation, Umatilla national forest

.57 Northeast counties Blue Mountain region

Clas here general works on Blue Mts; see also 979.746 Blue Mts in Wash. Snake River; clas general works on Snake River in 979.61

.571 Union 1 *La Grande*

Eagle Mts, Grande Ronde valley, Minam national forest

.573 Wallowa

Wallowa Mts, Eagle Cap Mt, Sentinel Peak, Powder River Mts, Wallowa national forest

.575 Baker 1 *Baker* (city)

Burnt River Mts

.578 Grant

Strawberry and Buck Mts, Malheur and Whitman national forests

.58 Central counties Central Oregon

.581 Wheeler

.583 Crook Maury Mts, Ochoco national forest

.585 Jefferson

.587 Deschutes 1 *Bend*

Paulina Mts, Lava caves, Deschutes national forest

.59 Southeast counties Lake basin

.591 Klamath

Walker Range (Rim or Mt), Mt Thielsen, Upper Klamath Lake, Klamath Indian reservation, Paulina national forest

5 Crater Lake national park

Crater Lake, Mt Mazama, Mt Scott, Union Peak

.593 Lake

Warner and Wagontire Mts, Winter Ridge, Summer Lake, Lake Abert, Warner Valley and Lakes, Fremont national forest

.595 Harney

Steens (Steins) Mts, Harney and Malheur Lakes

.597 Malheur

Cedar and White Horse Mts, Saddle Mt, Malheur and Owyhee Rivers

979.6 **Idaho**

Part of Louisiana purchase. First included in Oregon, later in Washington territory. See also 979.5 Oregon and Pacific northwest. 3 Mar. 1863 territory organized. 3 July 1890 admitted as 43d state. Area 83,888 sq.mi. 44 counties. Sobriquet: Gem state. Capital: Boise (979.6281)

Columbia Plateau; clas general works on Columbia Plateau in 979.73. Idaho Rockies; clas general works on Rocky Mts in 978

.61 Southern Idaho Snake River plains

Clas here general works on Snake River; see also 979.65 Upper Snake River district, 979.57 Snake River valley in Ore., 979.74 in Wash.

.62 **Southwest counties**

.621 Owyhee Owyhee Mts

.623 Canyon .624 Payette .625 Washington

1 *Nampa*

.626 Adams Seven Devils Mts, Weiser national forest

.627 Gem .628 Ada 1 *Boise* (city)

.629 Elmore Little Camas Prairie

.63 **South central counties**

Alturas, 1 of original counties, embraced present Elmore, Camas, Blaine, Minidoka, Lincoln, Jerome, Gooding, Custer and part of Power

.631 Camas Big Camas Prairie

.632 Blaine

Embraces former counties of Alta and Logan. Hyndman Peak, Craters of the Moon national monument, Sawtooth national forest

.633 Minidoka .635 Jerome

.634 Lincoln .636 Gooding Thousand Springs

.637 Twin Falls 1 *Twin Falls* (city)

Shoshone and Twin Falls

.639 Cassia

Goose Creek and Black Pine Mts, Minidoka national forest

.64 **Southeast counties**

.641 Oneida Malade and Hansel Ranges, Blue Spring Hils

.642 Franklin

.644 Bear Lake

Bear River Range, Bear Lake, Caribou national forest

.645 Caribou Preuss Range, Aspen Ridge

.647 Bannock

Port Neuf and Bannock Ranges, Pocatello national forest

1 *Pocatello* .649 Power

Idaho

979.65 **Northeast counties Upper Snake River district**

Clas general works on Snake River in 979.61

.651 Bingham

Blackfoot Mts, Ft Hall Indian reservation

1 *Idaho Falls* (city)

.653 Bonneville

Caribou Range, John Gray's Lake

.654 Teton

Pierre's Hole Mts, Teton Basin (Pierre's Hole), Palisade national forest

.655 Madison Snake River Mts

.656 Fremont Targhee national forest

.657 Clark .658 Jefferson

.659 Butte

Little Lost River Mts, Lemhi national forest

.66 Central Idaho Bitterroot Range

.67 **Southeast central counties**

Sawtooth Mts, Salmon-Lost River district

.672 Custer

Lost River and Pahsimeroi Mts, Challis national forest

.674 Boise Boise national forest

.676 Valley Idaho and Payette national forests

.678 Lemhi

Salmon River Mts, Lemhi range, Yellow Jacket and Beaverhead Mts (Continental divide), Salmon national forest

.68 **North central counties**

.682 Idaho

Salmon River valley, Clearwater and Crags Mts, North Camas Prairie, Nez Perce and Selway national forests

.684 Lewis Nez Perce Prairie

.685 Nez Perce 1 *Lewiston*

Clearwater River valley, Craig Mts

.686 Latah

Thatuna Hils, Upper Palouse. Clas general works on Palouse country in 979.739

.688 Clearwater Clearwater national forest

.69 Northern Idaho Panhandle counties

.691 Shoshone

Coeur d'Alene Mts, St Joe national forest

.693 Benewah

.694 Kootenai 1 *Coeur d'Alene* (city)

Coeur d'Alene Lake, Rathdrum Prairie, Coeur d'Alene national forest

.696 Bonner

Cabinet Mts, Pend Oreille and Priest Lakes, Kaniksu national forest. Clas general works on Kaniksu national forest in 979.721

.698 Boundary Pend Oreille national forest

979.7 Washington

Formerly part of Oregon territory. 2 Mar. 1853 territory organized. 11 Nov. 1889 admitted as 42d state. Area 69,127 sq. mi. 39 counties. Sobriquets: Evergreen or Chinook state. Capital: Olympia (979.7791)

.71 Eastern Washington

Inland empire: includes also northeast Oregon 979.57 and northern Idaho 979.69

.72 Okanogan Highlands Northeast counties

.721 Pend Oreille

Kaniksu national forest. Clas here general works on Kaniksu national forest; see also 979.696 Kaniksu national forest in Id.

.723 Stevens

Huckleberry Mts, Spokane Indian reservation

.725 Ferry

Kettle River Range, Colville national forest, Colville Indian reservation

.728 Okanogan

Sawtooth Ridge, Buckhorn Mts, Okanogan national forest

.73 Columbia Plateau East central counties

Columbia River, Big Bend country. Clas here general works on Columbia River and Plateau; see also 979.54 Lower Columbia valley in Ore., 979.56 Columbia Plateau in Ore., 979.6 Columbia Plateau in Id., 979.78 Columbia-Cowlitz basin

.731 Douglas Badger Mts

.732 Grant

Saddle Mts, Frenchman Hils, Grand Coulee, Moses Lake

.733 Franklin

.734 Adams

.735 Lincoln

.739 Whitman

Palouse country: includes also part of Latah co., Id. 979.686

.737 Spokane

Spokane River

1 *Spokane* (city)

.74 Southeast counties

Lower Snake River. Clas general works on Snake River in 979.61

.742 Asotin

.744 Garfield

.746 Columbia

Northern Blue Mts. Clas general works on Blue Mts in 979.57. Wenaha national forest

.748 Walla Walla 1 *Walla Walla* (city)

Washington

979.75 Yakima and Wenatchee valleys Central Washington counties

Northern Cascade Range. Clas general works on Cascade Mts in 979.51

.751 Benton Horse Heaven Hils and Plateau

.753 Klickitat

.755 Yakima 1 *Yakima* (city)

Mt Adams, Rattlesnake and Yakima Ridges, Cleman Mts, Yakima River, Yakima Indian reservation

.757 Kittitas Wenatchee Mts, Manastash Ridge

759 Chelan 1 *Wenatchee*

Mt Stuart, Entiat Range, Chelan Mts, Wenatchee River, Lake Chelan, Chelan and Wenatchee national forests

.76 Western Washington

.77 Puget Sound counties Puget Sound

.771 Snohomish 1 *Everett*

Glacier Peak, Snoqualmie national forest, Tulalip Indian reservation

.772 Skagit

Fidalgo, Guemes and Cypress Islands, Rosario Strait, Swinomish Indian reservation

.773 Whatcom 1 *Bellingham* (city and bay)

Lummi Island, Mt Baker, Custer and Skagit Ranges, Washington or Mt Baker national forest, Lummi Indian reservation

.774 San Juan

San Juan, Orcas and Lopez Islands, Washington Sound (San Juan Archipelago), Canal de Haro (Haro Strait)

.775 Island Whidbey and Camano Islands

.776 Kitsap

Bainbridge Island, Hood Canal, Port Madison Indian reservation

1 *Bremerton* Puget Sound navy yard

.777 King 1 *Seattle*

Vashon Island, Lake Washington, Muckleshoot Indian reservation

.778 Pierce 1 *Tacoma*

Nisqually and Puyallup Indian reservations

5 Mt Rainier national park Mt Rainier

.779 Thurston 1 *Olympia*

Black Hils, Chehalis Indian reservation

.78 Columbia-Cowlitz basin Southwest central counties

Clas general works on Columbia River in 979.73

.782 Lewis

Tatoosh Range, Cowlitz River, Rainier national forest

.784 Skamania

Mt St Helens, Columbia national forest

.786 Clarke 1 *Vancouver* (city)

Cald Vancouver 1845–9

.788 Cowlitz

Washington

979.79 Coast counties
Coast ranges, Coastal lowland
.791 Wahkiakum
.792 Pacific
Willapa Hils, Willapa Bay (Shoalwater Bay), Shoalwater Indian reservation
.794 Olympic peninsula
Olympic Mts, Olympic national forest
.795 Grays Harbor
Cald Chehalis 1854–1915. Grays Harbor (bay), Quinault Indian reservation
1 *Aberdeen* 2 *Hoquiam*
.797 Mason
Cald Sawamish 1854–64. Skokomish and Squaxin Island Indian reservations
.798 Jefferson
Mt Olympus national monument, Mt Olympus; Hoh Indian reservation
.799 Clallam
Juan de Fuca Strait; Makah, Ozette and Quillayute Indian reservations

.8 **Alaska**
30 Mar. 1867 ceded by Russia 24 Aug. 1912 organized as territory
Area 590,884 sq.mi. Capital: Juneau

980 South America Latin America Spanish America

.1–.6 South American Indians Divided like 970.1–.6

981 Brazil
982 Argentina Patagonia
983 Chile
984 Bolivia
985 Peru
986 U. S. of Colombia Panama New Granada Ecuador
987 Venezuela
988 Guiana
989 Paraguay Uruguay

990 Oceania Polar regions

991 Malaysia
.1 Borneo .2 Celebes .3 Moluccas or Spice ilands .4 Philippine ilands

992 Sunda
.1 Sumatra .2 Java

993 Australasia
.1 New Zealand .2 New Caledonia .3 Loyalty ilands .4 New Hebrides .5 Solomon ilands .6 New Britain, New Ireland .7 Admiralty ilands

994 Australia

Period divisions

.01 Discovery –1779
Clas here works dealing exclusivly with Australian aspects. For general accounts of voyages of discovery see 910.4
.02 First settlement and early growth 1779–1851
Convicts and military autocracy; pastoral expansion; free immigration and agitation for self-government; convicts v. free settlers
.03 Gold discoveries and consolidation 1851–91
.04 Formation of the Commonwelth 1891–1922
Federal movement and development of federal institutions. Period of European war (1914–18) and its aftermath (See also 940.394 for military participation of Australia)
.05 Later 20th century 1923–
Including general works on 20th century. Bruce 1923–9 Scullin 1929–31 Lyons 1931–8 Menzies 1938–

Geografic divisions

.1 **Western Australia**
.2 **South "**
.29 **Northern Territory**
.291 Central Australia
.295 North "
.3 **Queensland**
.4 **New South Wales**
.5 **Victoria**
.6 **Tasmania**
.7 **Australian Capital Territory** **Canberra**
.8 **Isolated islands**
Lord Howe, Norfolk, Philip, etc.

995 New Guinea

996 Polynesia
.1 Fiji, Friendly and Navigator ilands .2 Socicty, Austral and Cook ilands .3 Marquesas ilands and Low Archipelago .4 Minor Polynesian ilands .5 **Micronesia** .6 Caroline and Pelew ilands .7 Ladrone ilands .8 Marshall and Gilbert ilands .9 Hawaii

997 Isolated ilands

998 Arctic regions
General number for Polar regions

999 Antarctic regions

Volume 2

Index

DECIMAL CLASSIFICATION

AND

RELATIV INDEX

BY MELVIL DEWEY A M LL D

EDITION 14

REVISED AND ENLARGED

VOLUME 2: RELATIV INDEX

FOREST PRESS INC

LAKE PLACID CLUB ESSEX COUNTY N Y

1942

Decimal Clasification and Relativ Index

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Melvil Dewey
1876, 1885, 1911, 1913, 1915, 1919
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Modifying D C numbers

Confuzion and annoyance to thousands of uzers cauzd by printing unauthorized variations force the publishers to insist strictly on ful copyryt protection. Every library and individual uzer has, however entire freedom to make such variations as he thinks he needs, under the simpl restrctions found necesary to protect the ryts of others. See v. 1, p. 35[2]-38[1], Letter or simbol notations for chanjes or aditions.

Note on spelling of Ed 14

In response to the exprest sentiment of many D C users, the Decimal Classification Committee voted 16 May 1941 to adopt conventional spelling for the index of Ed 14. In deference to the lifelong convictions of the author, however, his statements regarding simpler spelling are reprinted in this edition without alteration. Statements regarding D C usage wil be understood. therefore, as applying to Tables and prefatory matter, but not to Index of Ed 14.

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Explanatory note to the Relativ Index

Never classify solely from the Index; always verify in the Tables. This advice can not be overemphasized. The Relativ Index, as any other index, is a means of finding an entry for a particular topic, or some phase of a topic; and the number there referred to should be used as a clue to the Tables, not as a class mark. The entries of the Index are so worded as to give a guiding idea of the field in which a topic, or its particular aspect, is treated. Tho to make an entry comprehensible sometimes requires an extensive phraseology, most of the entries are rather brief. The relativity of juxtaposed entries gives quite often an idea of different phases, approaches, or variant meanings of a word, and may guide the user of the scheme to certain Tables which, after examination, should be the only criterion in selecting a class mark for a specific item.

Conventional spelling has been adopted for the Index by the Decimal Classification Committee for the sole purpose of diminishing the inevitable inconvenience to users. A person with a book in hand is influenced by the vocabulary and spelling used by its author. Since the latter in most cases follows conventional standards, the problem of locating a topic will be facilitated if it is spelled the same way in the Index.[1] This, however, does not solve the problem of locating one or more places in which the topic in question is treated in the Tables.

Here comes the question of terminology. Very seldom do people think of a subject in exactly identical terms. So far as possible, the entries of the Index are expressed in terms of current usage. But there are so many synonymous or similar terms by which an idea may be expressed, that the inclusion of all possible words of approach would result in a bulky index many times larger than the Tables containing the ideas. The choice of entry words, 'catch words', and of subsequent terms following the entry is a difficult problem. As far as feasible the terms chosen for entries are those that on the one hand belong to the terminology of a subject, and on the other are most likely to come to one's mind when thinking of a topic. Quite often they are not identical, and thus a classifier has to exercise his imagination and bring into play his knowledge in order to find a desired term. To facilitate this search numerous cross-references are included thruout the Index. Here it may be suggested that when a term is found it should be kept in mind that other forms of the same root may profitably be examined as well. Take, for instance, the entry word 'Nation'. First of all, the plural form should be kept in mind. However, between 'Nation' and 'Nations' there are 5 other entry words of the same root: National, Nationalist, Nationalities, Nationality and Nationalization. It is not always possible to say beforehand under which of these terms the desired aspect of the subject 'Nation' will be found. The phraseology of the entries is so planned as to indicate what phase of a topic is under any particular class mark, but by consulting the Tables a successful solution of the problem may be secured more quickly and safely than by analysing this phraseology, which is intended to furnish only clues and not the final answers.

The initiative and resourcefulness of a classifier will be very helpful when it becomes desirable to examine various entries related to a topic but expressed in words of different etymologic roots. A few examples may illustrate this point. There are entries under 'Milk', but there are also entries under 'Butter', 'Buttermilk', 'Cheese', 'Cream', 'Dairy', 'Lacto-', under which an aspect in question may be found, not mentioning 'Nutrition', 'Curdling', and other entries closely connected with milk. Similarly, various aspects of the topic 'Heart' may be found under 'Blood', 'Cardiac', 'Circulation', 'Pulse', etc.

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[1] Tho the spelling in the Tables has not been revized, it should not cause great inconvenience to classifiers because the context always makes readily understood the meaning of simplified words.

Generally, the topics in the Index are expressed by nouns. In many cases the singular form is used as an adjective, and the plural form as a noun, tho there are inevitable, but not numerous, exceptions. Adjectives are also used as entry words when they are striking in character, or are of the same root as the noun by which an idea is expressed. Such adjectives as 'large', 'small', 'artificial', etc., are generally used in subheads but not as entry words. In some cases distinctive phrases are used in both direct and inverted forms; e.g. 'Hygiene, industrial', and 'Industrial hygiene'. Names of societies, clubs, associations, etc. are used in their official forms. In case of singular entries synonymous words or alternative spellings are duplicated. Similarly, pseudonyms and real names are accompanied by class marks without cross-references from one form to another.

The order of entries is alphabetic and should not cause any inconvenience in cases of deviation from the strict alphabetic sequence. Names with Mac and Mc are listed as if spelled Mac. Germanic terms with ä, ö, ü, are listed as if spelled ae, oe, ue.

Tho the spelling in the Index is that of standard English dictionaries (Standard and Webster being followed in most cases), a simpler form of a word has always been preferred if it can be found in its proper alphabetic place, as 'hight' in place of 'height', 'gage' instead of 'gauge'. Initial and middle ligatures 'ae' and 'oe' are used only in scientific names; thus there are 'Esthetics', 'Eolian', 'Esophagus', etc., instead of 'Aesthetics', 'Aeolian', and 'Oesophagus'. As far as abbreviations and contractions are concerned they are placed as if spelled in full. Thus 'blood' precedes 'bldg', 'mfg' precedes 'math.', etc. However, no discrimination has been made in case of repeated abbreviations; thus 'psychology', 'psychologic'; 'geography', 'geographic', etc., follow the order of other parts of neighboring entries.

Quite often hyphenated entries are given in transposed form, i.e. their first part is a subhead of the second part. The hyphen following the transposed first part clearly indicates the original form of the entry.

Each entry should be verified in its proper place in the Tables. In case an entry has a class mark longer than that printed in the Tables, the excess figures represent an authorized subdivision (numerous places in Tables indicate such subdivisions) or form division from Supplementary table 2.

Topics which can be treated locally, i.e. subdivided geographically (see Supplementary table 1) in previous editions were placed under names of countries. In this edition such topics are set with a few examples of geographic treatment which should suggest the technic of building up a class mark for any desired country. In some cases treatment of a topic by locality deviates from usual principle of 'divided like 930–999'. In such cases this can be found under an entry word. As an illustration cf Law, Eng. 346; Law, US 345; and Law in (country) 349.——

Since the arrangement of subheads by indentions used in this Index may necessitate omission of a comma, the exact phraseology of an entry should be visualized. Thus 'Glass blowing' and 'Glass, burning' appear without a comma in the latter case, and its exact meaning may be restored by visualizing the missing punctuation.

In many cases the conjunction 'and' indicates relation between connected topics; e.g. 'Education and religion,' 'Blood and spleen', 'Genius and crime', etc.

Under numerous entries there are references reading 'see also qualifying or specific terms'. To illustrate the meaning of such references see 'Rocks'. There are various kinds of rocks that are listed under qualifying terms, as 'Plutonic rocks', 'Sedimentary rocks', 'Volcanic rocks', etc., and also particular entries under specific terms, as 'Felsites', 'Granite', 'Syenite', etc. Since all these topics may be found under 552, to list them under 'Rocks' would bring in alphabetic order all rocks under the single approach of the entry 'Rocks'. The adopted arrangement, however, gives several approaches and thus there is a greater possibility of locating a desired topic. If we should duplicate all entries under 'Rocks' and also under qualifying or specific terms, it would greatly increase the bulk of the Index. The included expansions and coming expansions in succeeding editions require economy in entries that may not imperil the usefulness of the Index.

In connection with this the Decimal Classification Editorial Office would appreciate any comment, criticism, suggestion, etc. concerning the Index and the scheme as a whole. Only thru cooperation between interested people and our Office may we expect to make satisfactory progress in answering the needs of classifiers — whether librarians, or private individuals. Various users of the DC scheme communicate from time to time with this Office, bringing attention to misprints and mistakes, suggesting new topics for inclusion in coming expansions, etc. All correspondence is sincerely appreciated and carefully considered.

Certain methods have been introduced that may be mentioned. First, popular names of animals and plants, which often are mentioned in agriculture and elsewhere, are accompanied (in curves) by scientific names from zoologic and botanic schemes. This eliminates necessity of supplying under the same entry an additional class mark from those schemes. On the other hand, it suggests that the topic in question may be classified as an item of botany or zoology as the case may be.

Another feature is that of using the dash in class marks. This indicates that such class marks are incomplete and that proper figures are to be added. For instance, there are entries like these:

Drama . . . lit.	
[3] other	——2
Schools . . .	
in other specific	
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The first case indicates that class mark for drama in any particular literature should be built by using specific number for the literature and by adding to that number figure 2; e.g. Japanese drama is 895.62, Polish drama 891.852, etc.

The second case indicates that form division from Supplementary table 2 may be added to any class mark; e.g. Mining schools is 622.071, Dentistry schools 617.6071, etc.

The third case is similar to the first one. Thus for Voice signs in Russian language we will have 491.728.

In all these and other similar cases, the superior figures at left margin refer to Supplementary tables following this Index.

To avoid frequent repetitions in the Index of long lists of geographic, philologic, etc. subdivisions, 4 Supplementary tables are provided giving (1) subjects, with class numbers of each, which may be divided geographically; (2) form divisions, which may be applied thruout the main Tables as needed; (3) languages, with their class numbers, which may be further subdivided by adding figures given in Supplementary table 4; and literatures, with their class numbers, which may be subdivided by adding numbers for literary forms as given under English literature; (4) philologic divisions, with figures to be added in subdividing any language in Supplementary table 3.

Class numbers for description and travel are usually omitted. In certain cases when a mountain, lake, national park, etc. are more likely to have books of descriptive nature than of historical treatment, these numbers are given, and history numbers are omitted.

If literature and philology numbers are similar (except initial 8 or 4) the latter are indicated and the former omitted. If, however, the numbers in literature differ from those of corresponding languages, both numbers are indicated; e.g. Pali language is 491.3701, Pali literature 891.3; but Siamese language is 495.91, and no literature number is given because it is 895.91.

In conclusion we may suggest once more to consult the Tables in each case when a topic in question has been located thru the Index. Systematic arrangement under various subjects in the Tables may provide better means for selecting the class mark than any entry in the Index. A glance at headings preceding and following the class number in question and examination of frequently found references and notes will facilitate the problem of classifying and will insure the correctness of a chosen class mark. Since typographic errors among entries of the Index are likely to be present, in spite of our efforts to catch them, we repeat again: **Never classify solely from the Index; always verify in the Tables.**

C J Mazney
M W Getchell

Washington D C

Abbreviations

Used in Index and Supplementary Tables

acad.	academic, etc.
acquis.	acquisition
admin.	administration, etc.
adver.	advertizing
agric.	agriculture, etc.
Ala	Alabama
Amer.	American
anal.	analysis, etc.
anat.	anatomy, etc.
anc.	ancient
anim.	animal(s)
anniv.	anniversary
antiq.	antiquities
apic.	apiculture
apt	apartment
archeol.	archeology, etc.
archi.	architecture, etc.
Ariz	Arizona
Ark	Arkansas
art.	artistic
ass'n(s)	association(s)
astrol.	astrology
astron.	astronomy, etc.
avic.	aviculture
bibl.	bibliography
biog.	biography
bldg(s)	building(s)
bot.	botany, etc.
Brit.	British
bus.	business
Calif.	California
Can.	Canada, Canadian
cap. & labor	capital & labor
Cath.	Catholic
cen. pow.	central powers
cent.	century
ch.	church
chem.	chemistry, etc.
Chin.	Chinese
Chr.	Christian, etc.
Christol.	Christology
chronol.	chronology
cinephot.	cinephotography, etc.
civ.	civil
co.	company, *or* county
coll'n(s)	collection(s)
Colo	Colorado
commer.	commercial
comp.	comparative, etc.
compos.	composition, etc.
Conn	Connecticut
constit.	constitution, constituent, etc.
constr'n(s)	construction(s)
corp.	corporation
cost.	costume
crim.	criminal
criminol.	criminology
crystallog.	crystallography, etc.
cytol.	cytology, etc.
Dan.	Danish
DC	District of Columbia
dec.	decoration
Del	Delaware
demog.	demography, etc.
dept(s)	department(s)
descr.	description, etc.
devel.	developing, etc.
diff.	different, differential, etc.
dis.	diseases
dist.	district
distrib.	distribution
div.	division
doc.	doctrine, etc.
dom.	domestic
eccles.	ecclesiology, etc.
ecol.	ecology, etc.
econ.	economy, etc.
educ.	education, etc.
elec.	electricity, etc.
elem.	element, elementary, etc.
embryol.	embryology, etc.
eng.	engineering (*not* engines)

Eng.	England, English, etc.
engr.	engraving
entomol.	entomology
equip.	equipment
estab.	establishment
eth.	ethics
etymol.	etymology, etc.
Eur. (w.)	European (war)
evol.	evolution, etc.
exped.	expedition
exper.	experimental, etc.
f. arts	fine arts
fertiliza.	fertilization
fict.	fiction
fin.	financial, etc.
Fla	Florida
floric.	floriculture
fruitc.	fruitculture
furn.	furniture
Ga	Georgia, US
gard.	gardening
gen.	general
genera.	generation
geod.	geodesy, etc.
geog.	geographic, etc.
geol.	geology, etc.
geom.	geometry, etc.
Ger.	Germany, German
Gk	Greek
gov't	government
herpetol.	herpetology
hist.	history
histol.	histology
hortic.	horticulture
Hung.	Hungarian
hyg.	hygiene
Ia	Iowa
ichthyol.	ichthyology
Ida	Idaho
Ill	Illinois
illus.	illustration
immig.	immigration, etc.
Ind	Indiana
indiv.	individual, etc.
indus.	industry, etc.
inorg.	inorganic
instit.	institution, etc.
instr.	instrument, etc.
insur.	insurance
int'l	international (*not* internal)
Ire.	Ireland
It.	Italy, Italian
Jap.	Japan, Japanese
jurispr.	jurisprudence
Kan	Kansas
Ky	Kentucky
La.	Louisiana
lands.	landscape
lang.	language (*not* languages)
Lat.	Latin
legis.	legislature, etc
lib.	library, etc.
limit.	limitation
lit.	literature, etc.
lithog.	lithography, etc.
loc.	local, etc.
mach.	machine, etc.
maint.	maintenance, etc.
mammal.	mammalogy
manage.	management
Mass	Massachusetts
math.	mathematics, etc.
Md	Maryland
Me	Maine
mech.	mechanical, etc.
med.	medical, medicine, etc.
ment.	mental, mentality, etc.
metaphys.	metaphysics, etc.
meteorol.	meteorology
meth.	method(s)
Mex	Mexico, Mexican
mfg	manufacturing
Mich	Michigan
mil.	military
min.	mineral
min'g	mining
Minn	Minnesota
misc.	miscellany, etc.
Miss.	Mississippi
Mo	Missouri
mod.	modern
modula.	modulation, etc.
mon.	monastic
Mont.	Montana
morphol.	morphology, etc.
mot. veh.	motor vehicle(s)
ms(s)	manuscript(s)
mt	mountain
mus.	museum, *or* musical
nat.	natural
nat'l	national
nav.	naval
naviga.	navigation
NB	New Brunswick
NC	North Carolina
ND	North Dakota
Neb	Nebraska
Nev	Nevada
NH	New Hampshire
NJ	New Jersey
Norw.	Norwegian
NS	Nova Scotia
NT	New Testament
nuncic.	nuciculture
NY	New York
O	Ohio
Okla	Oklahoma
Ont	Ontario
opera.	operation
ophthalmol.	opthalmology
ord.	order
ordn.	ordnance
Ore	Oregon
org.	organ, organic, etc.

organiza.	organization
organog.	organography, etc.
orig.	origin, etc.
ornithol.	ornithology
OT	Old Testament
Pa	Pennsylvania
paleobot.	paleobotany
paleozool.	paleozoology
pathol.	pathology
PEI	Prince Edward Island
pharm.	pharmacy, etc.
phenol.	phenology
philol.	philology, etc.
philos.	philosophy
phot.	photography, etc.
photoengr.	photoengraving
photolithog.	photolithography
phys.	physical
physiog.	physiography
physiol.	physiology, etc.
plan.	planning
poet.	poetry
polit.	political, etc.
prac.	practical
pres.	presidency, etc.
preserva.	preservation
priv.	private
Prot. Epis.	Protestant Episcopal
prot'n	protection
prov.	province
pseud.	pseudonym
psychoanal.	psychoanalysis, etc.
psychol.	psychology, etc.
psychom.	psychometry
pub.	public
Que	Quebec
recrea.	recreation, etc.
reg.	region, regional
regula.	regulation(s)
rela.	relation
relig.	religion, etc.
revol.	revolution
RI	Rhode Island
rit.	ritual
Rom.	Roman
Rus.	Russian
rys	railways
S. Amer.	South America
san. eng.	sanitary engineering
SC	South Carolina
Scan.	Scandinavian
sci.	science, etc.
Scot.	Scotch, etc.
sculpt.	sculpture, etc.
SD	South Dakota
sect.	sectarian, etc.
shipbldg	shipbuilding
silvic.	silviculture
soc.	social, society, etc.
sociol.	sociology, etc.
soteriol.	soteriology
Sp.	Spain, Spanish
statis.	statistics, etc.
subj.	subject
Swed.	Swedish
syst.	system, etc.
tech.	technology, technical, etc.
Tenn	Tennessee
teratol.	teratology
terr.	territory
Tex	Texas
theol.	theology, etc.
theor.	theoretic
therap.	therapeutics
trav.	travel, etc.
univ. & col.	universities & colleges
US	United States of America
Va	Virginia
varia.	variation
veget.	vegetable, etc.
vet. med.	veterinary medicine
vitic.	viticulture
vs	versus
Vt	Vermont
Wash	Washington state
Wis	Wisconsin
wks	works
WVa	West Virginia
Wyo	Wyoming
zool.	zoology, etc.
zootech.	zootechny, etc.

—— (dash) in class marks indicates omission (see p. 1135)

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Topics in black face type are subdivided. Superior figures refer to the tables following this index

SUPPLEMENTARY TABLES

Table 1 — Geographic divisions

The following subjects may all be divided geographically by adding the geographic numbers: i.e. 4 Europe; 5 Asia; 6 Africa; 7 North America; 8 South America; 9 Oceania. These can be further subdivided as minutely as wished, like the history, 930–999, which see for full table; e.g. 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographic numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e.g. Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; NY state, 974.7; add these together (omitting the 9) and the result is 378.747, colleges in NY state.

For other topics which may be divided geographically consult Tables and Index. Where no special provision is made for geographic subdivision, use 09 from Supplementary Table 2; see also form divisions 061–062 and 0711–3.

373.4-.9	Academies
379.4-.9	, pub.
354.3-.9	Administration
	for US see 353
923.53-.59	biog.
923.53-.59	Admirals' lives
784.7193-9	Airs, nat'l
591.93-.99	Animals, geog. distrib.
913.3-.9	Antiquities
631.493-.499	Arable lands
913.3-.9	Archeology
722-724	Architectural styles
	(see note in Tables)
923.53-.59	Army biog.
708.93-.99	Art galleries
362.93-.99	Asylums
027.23-.29	Atheneum libs.
912.3-.9	Atlases
911.3-.9	, hist.
013.93-.99	Authors, foreign
923.33-.39	Bankers' lives
332.153-.159	Banking, int'l
013.93-.99	Bibliog. of foreign authors
016.93-.99	hist.
015.3-.9	special countries
920.03-.09	Biog. of countries, coll.
	see also notes under 922
	& 923

655.43-.49	Bookselling, hist. of
338.5893-9	Booms
581.93-.99	Botany, geog.
022.333-.339	Buildings, lib.
331.193-.199	Capital and labor
923.33-.39	Capitalists' lives
361.93-.99	Charitable ass'ns
136.793-.799	Childhood
274-279	Church hist.
281.1-289.8	Churches (denominations)
	(see note in Tables)
027.33-.39	Circulating libs.
027.43-.49	City libs., pub.
923.53-.59	Civil service biog.
922	Clergymen's lives
	(see note in Tables)
635.95294-99	Climate influence on plants
027.23-.29	Club libs., proprietary
367.93-.99	Clubs, soc.
332.494-.499	Coinage, hist. of
027.73-.79	College libs.
378.4-.98	Colleges
325.33-.39	Colonies and colonization
	by countries
325.093	in anc. countries
325.4-.9	mod. "
	(see note in Tables)
923.83-.89	Commerce, biog. of
780.793-.799	Competitions, music
342.3-.9	Constitutional law
641.593-.599	Cookery
655.64-.69	Copyright
940.34-.39	Countries in Eur. w. (1914-19)
923.413-.419	Criminals' lives
364.93-.99	Criminology
338.5593-9	Crises
631.493-.499	Cultivation, lands for
913-919	Customs, nat'l
781.5085793-9	Dances, "
614.123-.129	Deaths and death-rates
281.1-289.8	Denominations, Chr.
	(see note in Tables)
338.5793-9	Depressions
914-919	Description, geog.
914-919	Directories
591.93-.99	Distrib. of anim., geog.
549.94-.99	min., "
581.93-.99	plants, "
572.93-.99	races, "
741.93-.99	Drawings
274-279	Ecclesiastic hist.
378.4-.98	Education, college
372.94-.99	elem.
373.4-.9	intermediate
376.93-.99	of women
373.4-.9	priv. acads.
379.4-.9	pub. school
923.73-.79	Educators' lives
372.94-.99	Elementary educ.
325.23-.29	Emigrants
923.13-.19	Emperors' lives
027.43-.49	Endowed libs., pub.
373.4-.9	schools, 2dary
769.93-.99	Engravings
572.93-.99	Ethnology
027.13-.19	Family libs.
591.913-.919	Faunas, insular
376.93-.99	Female educ.
631.8193-9	Fertilizers
780.793-.799	Festivals, music
336.4-.9	Finance, pub.
923.33-.39	Financiers' lives
581.913-.919	Floras, insular
784.493-.499	Folksongs
332.153-.159	Foreign banking
331.623-.629	labor
349.3-.9	law
327.3-.9	rela.
354.3-.9	states, admin.
634.9253-9	Forest policy
623.193-.199	Forts
027.93-.99	Free news rooms
027.43-.49	pub. libs.
027.03-.09	General libs.; hist., reports, etc.

914-919 Geography, descr.
911.3-.9 hist.
912.3-.9 maps
355.473-.479 mil.
554-559 Geology
354.3-.9 Government admin.
for US see 353
027.53-.59 libs.
352.03-.09 , loc.
923.23-.29 Governors' lives
911.3-.9 Historical geog.
016.93-.99 History, bibl. of
638.16593-99 Honey
362.93-.99 Hospitals
940.476 Eur. w. (1914–19) (see note in Tables)
799.293-.299 Hunting
784.7193-9 Hymns, nat'l
331.623-.629 Immigrant labor
325.4-.9 Immigration (see note in Tables)
338.93-.99 Industrial legis.
607.4-.9 Institutes of tech.
370.724-.729 , teachers
591.913-.919 Insular faunas
581.913-.919 floras
368.94-.99 Insurance
373.4-.9 Intermediate educ.
923.43-.49 Judges' lives
923.13-.19 Kings' lives
331.193-.199 Labor and capital
631.493-.499 Lands for cultivation
323.13-.19 Languages, internal rela.
923.43-.49 Law biog.
342.3-.9 constit.
349.3-.9 foreign
323.613-.619 Laws, citizenship
379.144-.149 school
338.93-.99 Legislation, indus.
021.894-.899 lib.
328.4-.9 Legislative bodies and annals
923.23-.29 Legislators' lives
027.03-.09 Libraries, gen.: hist., reports, etc.

808.8993-9 Literary coll'ns
809.93-.99 Literature, reg.
621.13294-99 Locomotives
371.42694-99 Manual training
912.3-.9 Maps
940.4754-9 Medical dept. Eur. w. (1914-19)
370.714-.719 Meetings, teachers
940.4654-9 Memorials of Eur. w. (1914-19)
923.83-.89 Merchants' lives
549.94-.99 Minerals, geog. distrib.
332.494-.499 Mints, hist. of
922 Missionaries' lives (see note in Tables)
708.93-.99 Museums, art
781.83-.839 Music, anc.
781.73-.79 forms, nat'l
780.793-.799 gatherings
323.13-.19 Nationalities, internal rela.
339.493-.499 Natural resources
923.53-.59 Naval biog.
638.13293-99 Nectariferous plants
027.93-.99 News rooms, free
923.23-.29 Nobles' lives
759.93-.99 Painting, nat'l schools of
338.5693-9 Panics
027.833-.839 Parish libs.
328.4-.9 Parliamentary bodies
329.94-.99 Parties, polit.
for US see 329.1-.8
929.72-.79 Peerage, nobility, etc.
923.63-.69 Philanthropists' lives
912.3-.9 Plans of cities, etc.
581.93-.99 Plants, geog. distrib.
638.13293-99 nectariferous
363.93-.99 Political ass'ns
911.3-.9 div.: growth & changes
923.33-.39 econ., biog.
329.94-.99 parties
for US see 329.1-.8
923.23-.29 sci., biog.
923.23-.29 Politicians' lives

922 Preachers' lives (see note in Tables)
373.4-.9 Preparatory schools
923.13-.19 Presidents' lives
655.13-.19 Printing, hist. of
365.93-.99 Prisons
027.13-.19 Private libs.
373.4-.9 schools, 2dary
027.23-.29 Proprietary libs.
027.43-.49 Public libs.
379.4-.9 school syst.
015.3-.9 Publishers' lists
655.43-.49 Publishing, hist. of
923.13-.19 Queens' lives
323.13-.19 Races, internal rela.
572.93-.99 of men, geog. distrib.
923.83-.89 Railroad officials' lives
027.43-.49 Rate supported libs.
027.93-.99 Reading rooms, free
338.5793-9 Recessions
364.93-.99 Reformatory instit.
327.3-.9 Relations, foreign
274-279 Religious hist., Chr.
339.493-.499 Resources, nat.
923.13-.19 Rulers, chief, lives
922.1-.8 Saints, lives of
027.823-.829 School libs.
923.73-.79 officers' biog.
374.44-.49 Schools, correspondence
370.734-.739 normal
373.4-.9 priv., 2dary
379.4-.9 pub., syst.
508.4-.9 Scientific trav.
734.4-.9 Sculpture, medieval
735.4-.9 mod.
366.93-.99 Secret soc.
281.1-289.8 Sects, Chr. (see note in Tables)
373.4-.9 Seminaries, 2dary educ.
923.53-.59 Service, civ., biog.
326.93-.99 Slavery, hist.
367.93-.99 Social clubs
913-919 life & customs

335.93-.99 Socialist communities
267.21-.23 Societies, relig., of men (see note in Tables)
366.93-.99 secret
027.23-.29 Society libs.
631.493-.499 Soil, arable
923.53-.59 Soldiers' lives
784.493-.499 Songs, folk-
784.7193-9 nat'l
379.4-.9 State educ.
027.53-.59 libs.
923.23-.29 Statesmen's lives
314-319 Statistics
311.39 , official
331.89293-99 Strikes
722–724 Styles, archi. (see note in Tables)
027.33-.39 Subscription libs.
324.4-.9 Suffrage
923.73-.79 Teachers' lives
607.4-.9 Technical schools
207.3-.9 Theologic schools
027.43-.49 Town libs., pub.
015.3-.9 Trade catalogs, bibl.
914-919 Travel, descr.
508.4-.9 sci.
341.24-.29 Treaties, texts and hist.
331.137793-799 Unemployment
378.4-.98 Universities, hist., reports, etc.
027.73-.79 University libs.
634.853-.859 Vinifera, vitis
634.841094-099 Amer. hybrids
371.42694-99 Vocational training
324.4-.9 Voting
331.2613-9 Wage laws
331.293-.299 Wages
940.47784-89 Welfare wk, Eur. w., (1914-19) by country
940.47794-99 in "
376.93-.99 Woman's educ.
331.8193-9 Work, duration, econ.
267.394-.399 YMCA
267.594-.599 YWCA
591.93-.99 Zoology, geog.

Table 2 — Uniform subdivisions

The following subdivisions introduced by 0, 00 or 000 may be annext to the number for any subject if 0 or 00 divisions ar not alredy specifically provided under that subject. If a 0 or 00 division has been thus used in the main tables a corresponding extra 0 or 00 must be introduced before the significant digits 1–9 of form divisions here given; e.g. 352.005 represents in main tables Municipal civil service and a periodical on municipal government wil be 352.0005 and not, corresponding to usual procedure, 352.05, which represents, as indicated in main tables, local government in Asia; similarly essays on Italian history (where only a single 0 is printed in the main tables) would be 945.004, not 945.04, which represents Age of the communes.

While variation in number of 0's used in different parts of the Classification to designate features provided for in these tables of common subdivisions may at 1st sight seem confusing, there need be no difficulty if the classifier wil, when 1 of these tables is to be applied, see whether a 0 or 00 has or has not alredy been attacht to the number for the subject.

If preferd, letters may be substituted for 0's used in tables. As a result of careful study the following letters ar suggested as bringing about by alfabetic arrangement a desirable order: d (language, *d*ialect), f (*f*orm), k (time, *k*ronolojy), p (*p*lace), r (*r*elation), v (*v*iewpoint); for bibliografic signs used in C D see Introduction, p. 40^2–43^1.

0 Form divisions

Including subdivisions derived mainly from C D.
For further subdivisions peculiar to special subjects see thosc subjects in main classification

01 **Philosofy Theory**
011 General conception
Definition, nature and character, origin, limits and cxtent, purpose, principles, plan
012 Classification
Divisions of the subject and their interrelations
013 Value Importance Usefulness
014 Language
Nomenclature, terminology, etimology, synonims, notations and symbols, abbreviations
For discussions; for dictionaries and glossaries see 03
2 Etimology
3 Scientific
32 Names of genera, species, ctc.
33 Tecnical terms: organs, functions, processcs, etc.
4 Popular
8 Systems of notation: symbols, abbrcviations, ctc.
015 Theories based on the pure sciences
Divided like 500
016 Miscellaneous theories
017 Systems of units and mesures peculiar to the subject
018 Scientific and tecnical methods
For experimental methods see 072; for teaching methods see 077
8 Special methods
Divisions appropriate to the subject; for each distinct subject see that subject
9 Methods of collaboration and cooperation
02 **Compends Handbooks Outlines**
Digests, syllabuses, charts, manuals, etc.; i.c. works treating thc subjcct as a whole, briefly, in a systematic way
024 Books for special classes of persons
Divided like the whole classification, e.g. 332.024396 Pcrsonal financc for womcn
028 Tecnic

03 **Dictionaries Cyclopedias**
Concordances, lexicons, glossaries, vocabularies, etc.
04 **Essays Addresses Lectures**
Discourses, dissertations, letters, papers, tracts, etc.: i.e. works which take up various features of a subject without exhausting it
05 **Periodicals**
058 Annuals Directories
059 Almanacs
06 **Collectiv bodies: organizations, associations, societies**
Histories of associations etc, transactions, reports, charters, regulations, lists of members, etc
061 Government organizations
Departments, buros, etc. Divided like 062
062 Nongovernment organizations
Voluntary associations not under government control: societies, clubs, etc.
1 International
3-9 By country
Divided like 930–999
063 Congresses Conferences Temporary organizations
Divided like 062
064 Exhibits
Clas here only material distinctly illustrativ of the work of the organization. For exhibits chiefly of value from viewpoint of their subject see 074
065 Commercial establishments
See also 085 Commercial publications
069 Persons in relation to the subject
Persons interested in the subject: studying it, or occupied with it as a profession or business, their character, condition, duties and activities, their life and all which concerns them. Professional ethics. Clas here only works treating subject from general or theoretic viewpoint; clas works relating to individuals as biografy
07 **Study and teaching**
071 Schools Courses
1 Colleges Universities Divided like 930–999
2 Secondary schools " " "
3 Elementary " " " "
4 Schools and courses for special classes of persons
Correspondence courses, etc
5 Extension work
52 Institutes
6 Short courses
63 Summer
65 Winter
8 Private schools and courses
For general discussions. Schools and courses belonging to any of groups above ar clast by type
072 Reserch establishments Laboratories Experimentation Experiment stations
074 Museums Exhibits
For exhibits showing primarily the work of an organization see 064
076 Problems and questions
Their solution and ansers; exercize books
1 Statements of problems and questions
2 Solutions of problems
5 Practical exercizes

077 Pedagogic methods appropriate to special subject
See also 018 Scientific and tecnical methods, 072 Experimental methods

078 Instruments Apparatus
Equipment, implements, accessories, tools, etc.

079 Competitions Prizes Awards
Means of encuragement relativ to subject: medals, subsidies, scholarships, honorary titles and insignia, etc.

1 Public competitions and tests

3 Excursions Travels

4 Subsidies for research

08 **Polygrafy Collections Extracts**
Miscellanies, etc.

081 Individual polygrafy
Collected writings of a single author

082 Collectiv polygrafy
Collections of writings of several authors

1 Libraries Series

2 Anthologies Extracts Maxims Quotations

083 Reciets Formulas Tables

1 Reciets

2 Formulas

3 Abridgd formulas Mathematic formulas

4 Tables
Sinoptic tables

5 Numeric tables

6 Tables of results

8 Lists Statements Inventories Catalogs of objects
See also 085 Commercial catalogs

084 Grafic representations other than text
Atlases, portfolios, albums; collections of illustrations, charts, plates, designs, etc. relating to the subject, without text or with the text secondary

085 Commercial publications relating to the subject
Prospectuses, price lists, commercial catalogs, announcements, advertizements, etc.
See also 065 Commercial establishments

088 Varia

3 Curiosa Anecdotes Jokes Jests Oddities

5 Mysteries Humbugs Scientific frauds

089 Artificial collections Works, not serials, in course of publication

1 Artificial collections

2 Works, not serials, in course of publication

09 **History and general local treatment**

0901 Ancient history Primitiv

2 Medieval "

3 Modern "

4 20th century—

092 Biografy Case histories
Biografy is preferably clast in 920

093–099 By country
Divided like 930–999

00 Viewpoints

There is a degree of duplication of the material indicated under 001–009 (corresponding to C D's Points of view) and under 0003 (taken mainly from D C's 620.01–.09, which was in print 15 years earlier) but both ar here included for convenience of those who hav used either 1 or the other. It is recommended that where the captions seem practically synonimous 1 of them be chosen for use and reference made from the other

001 Speculativ point of view
Conception; purpose; statement of principles. Theoretic or experimental investigations and studies relating to an object

002 Point of view of realization
Fulfilment; construction; materials; constituent elements; procedure

003 Economic point of view
Industrial production; commercial output; cost and selling price

004 Point of view of servis and use

005 " " " " furniture and equipment

006 " " " " location and establishments or quarters
Use only for details of interior organization and service. For architecture see 720

007 Point of view of special personnel

008 " " " " organization
Clas here essential characteristics and general functions of the organization

009 Social and moral point of view

Below is given a 000 table covering (1) by use of arabie numerals what Classification Décimale provides for by bibliografic signs indicating relation and language (place being provided for by form division 09), and (2) divisions corresponding to those on 620.01–.09

000 Miscellaneous common subdivisions

0001 Relation
Divided like main classification

0002 Sources (literary, etc.) Documentation

0003 Administration
See note under table 00 Viewpoints

31 Statistics

32 Quantities Finance

33 Contracts Specifications

34 Designs Drawings

35 Executiv Administrativ

36 Working Maintenance

363 Personnel
May be divided like 331. As a feature of administration; for viewpoint of personnel see 007

364 Operation Running

365 Regulation Control
See note under 00037

367 Repairs Renewals
Administrativ point of view; a specific repair belongs with part repaird

368 Testing

37 Laws Regulations
Clas here regulations in general; for regulation as a feature of maintenance see 000365

38 Patents

39 Reports

0004 Language in which written
Divided like 400

0005–7 Reservd for special analitic subdivisions applicable to individual subjects

Index to supplementary Table 2, uniform subdivisions

Abbreviations —0148
Academies, soc., etc. —06
Accessories —078
Accounting —00032
Acts of societies, etc. —06
Addresses —04
Administration —0003
Administrative functions —00035
Adult education —0714
Advertizements, commerc. —085
Albums —084
Almanacs and calendars —059
Ancient hist. —0901
Anecdotes —0883
Announcements, commerc. —085
Annuals —058
Answers to problems —0762
Anthologies —0822
Antiquities —0901
Apparatus —078
Associations —06
Atlases —084
Awards —079
Biography —092
Blanks —083
Blueprints and plans —00034
Bounties, incentive —079
Briefs —02
Bureaus, ass'ns, etc. —06
Bylaws and regulations of ass'ns, soc., etc. —06
Calendars and almanacs —059
Case histories —092
Catalogs and lists —0838
Catalogs, commerc. —085
Character —011
Charlatanry —0885
Charters of ass'ns, soc., etc. —06
Charts, illus. —084
outlines —02
Chronicles, history —09
Classification —012
Clinics —072
Clippings, collection of —0822
Clubs —062
Collaboration —0189
Collected works & collections —08
Collections, artificial —0891
Collective bodies —06
Colleges and universities —0711
Colloquialisms —0144
Commercial
cat., circulars, etc. —085
establishments —065
output viewpoint —003
publications —085
Commissions, committees, bureaus, etc. —06
Compends —02
Competitions —079
Conception theory —011
viewpoint —001
Concordances —03
Conferences —063
Congresses —063
Constituent elements viewpoint —002
Constitutions and bylaws of ass'ns, soc., etc. —06
Construction viewpoint —002
Consultations —0189
Contests —079
Continuations, non-serial —0892
Contracts —00033
Control, admin. —000365
Conventions —063
Cooperation —0189
Corporations —06
Correspondence
courses & schools —0714
letters —04
Cost admin. —00032
viewpoint —003
Courses of instruction —071
private —0718
short —0716
Curiosa —0883
Cyclopedias —03
Debates —04
Definition —011
Departments, governmental —061
Derivation of terms —0142
Designs —00034
collection of —084
Deterioration —000364
Dictionaries, spec. —03
Digests —02
Directories —058

Discourses —04
Disputations —04
Dissertations —04
Distribution, geographic —093–099
Divisions —012
Documentation —0002
Dossiers —08
Drawings —00034
collection of —084
Economic viewpoint —003
Education —07
Elementary schools —0713
Elements viewpoint —002
Encouragement, means of —079
Encyclopedias, spec. —03
Epitomes —02
Equipment —078
and furniture viewpoint —005
Essays —04
Establishments and quarters viewpoint —006
Esthetics —01
Ethics, professional —069
Etymology, nomenclative —0142
Examinations, competitive —0791
Excursions, incentive —0793
Executive manage. —00035
Exercize books —076
Exercizes, practical —0765
Exhibits —074
of activities, of ass'ns, soc., etc. —064
Experiment stations —072
Experimental meth. viewpoint —001
Experimentation and its establishments —072
Expositions —064
Extension courses —0715
Extent —011
Extracts —0822
Fairs —064
Fieldwork —072
Finance —00032
Forms —083
Formularies —0832–3
Formulas —0832–3
Foundations, ass'ns, etc. —06
Frauds —0885
Fulfilment viewpoint —002
Functioning and operation —000364
Functions, terminol. of —01433
Furniture and equip. viewpoint —005
Genera, terminol. of —01432
Geographic distribution —093–099
Glossaries —03
Government control & regula. —00037
Governmental bureaus, depts, etc. —061
Grants, incentive —079
Graphic representation —084
Guide books —02
Handbooks —02
Highschools —0712
History —09
Hoaxes —0885
Honorary degrees, titles & insignia —079
Humbugs —0885
Humor and curiosa —0883
Iconography —084
Illustrations —084
Implements —078
Importance —013
Impostures —0885
Incentives —079
Industrial production viewpoint —003
Informational sources —0002
Insignia, honorary incentive —079
Institutes —07152
Instruction —07
Instruments —078
Interior organiza. & service —006
International ass'ns, soc., etc. —0621
Interrelations
between subjects —0001
classification —012
Inventories —0838
Investigations, theoretic & exper. viewpoint —001
Jests —0883
Jokes —0883
Journals, magazines, etc. —05
Laboratories and work in —072
Language
distinctive of subject —014
in which written —0004
popular —0144
sci. —0143
Law and principles —01
Laws and regulations —00037

Lectures —04
Legislation and laws —00037
Letters —04
Lexicons —03
Libraries as series —0821
Limits —011
Lists and catalogs —0838
of members —06
Literary addresses —04
Local ass'ns, soc., etc. —0623–9
treatment —093–099
Location and quarters
viewpoint —006
Magazines —05
Maintenance and working —00036
Management —00035
Manuals —02
Materials viewpoint —002
Mathematical formulas —0833
Maxims —0822
Measures peculiar to subject —017
Medals, honorific —079
Medieval hist. —0902
Members, lists of —06
Methods, cooperative —0189
experimental —072
of studying —07
of teaching —077
sci. & tech. —018
special —0188
Miscellanies —08
Modern hist. —0903
Moral viewpoint —009
Motivation —079
Museums —074
Mysteries —0885
Names, sci., of species, etc. —01432
tech. —01433
National ass'ns, soc., etc. —0623–9
Nature, gen. —011
Nomenclature —014
Notation syst. —0148
Numeric tables —0835
Observatories —072
Oddities —0883
Official bureaus, depts, etc. —061
Operation and functioning —000364
Orations —04
Organization
and admin. viewpoint —008
service, interior
viewpoint —006
Organizations, ass'ns, etc. —06
temporary —063
Organs, terminol. of —01433
Origin —011
Outlines —02
Output, commerc. viewpoint —003
Pamphlets —04
Papers and essays —04
Patents —00038
Pedagogic methods —077
Periodicals —05
Personnel admin. —000363
viewpoint —007
Persons connected with subject —069
Philosophy —01
Photographs, collections of —084
Pictures, collections of —084
Places viewpoint —006
Plan, gen. —011
Plans and blueprints —00034
Plates, illus. —084
Polygraphy —08
collective —082
individual —081
Portfolios, illus. —084
Practical exercizes —0765
Price lists —085
Prices admin. —00032
viewpoint —003
Primitive hist. —0901
Principles theory —011
viewpoint —001
Private institutions, soc., etc. —062
Prizes —079
Problems —076
Procedure viewpoint —002
Proceedings of ass'ns, soc., etc. —06
Processes, terminol. of —01433
Production, indus.
viewpoint —003
Professional educ. —07
people —069
Prospectuses —085
Publications
commerc. —085
gen., of acad., soc., etc. —06
Purpose —011
viewpoint —001
Quantities —00032
Quarters and location
viewpoint —006
Questions —076

Quotations —0822
Realization viewpoint —002
Receipts —0831
Records, admin. —00039
Regional ass'ns, soc., etc. —0623–9
Regulation admin. —000356
Regulations and rules —00037
of ass'ns, soc., etc. —06
Relation between subjects —0001
Renewals and repairs admin. —000367
Reports, admin. —00039
of ass'ns, soc., etc. —06
Research
and its establishments —072
subsidies for —0794
Results, tables of —0836
Reviews, magazines, etc. —05
Rules and regula. —00037
of ass'ns, soc., etc. —06
Running and functioning —000364
Satires —0883
Scholarships —079
Schools —071
private —0718
Scientific management —00035
meth. —018
terms —0143
Scope —011
Scrapbooks —0822
pictorial —084
Secondary schools —0712
Seminaries —071
Serials —05
Series and libraries —0821
Service and organiza.,
interior viewpoint —006
Serviceability and use
viewpoint —004
Sketches lit. —04
Slang —0144
Social viewpoint —009
Societies —06
Solutions of problems —0762
Sources of information —0002
Species, terminol. of —01432
Specifications —00033
Speculative point of view —001
Statements, cat. & lists —0838
Statistics —00031
Statutes —00037
Study —07
theor. & exper. viewpoint —001
Subsidies, incentive —079
Subventions, incentive —079
Summer courses —07163
Supervision, admin. —00035
Supplies viewpoint —005
Syllabuses —02
Symbols —0148
Synonyms, nomenclative —014
Synopses —02
Synoptic tables —0834
Tables —0834–6
Teaching —07
Technical educ. —07
meth. —018
terms —01433
Temporary organizations —063
Terminology —014
popular —0144
Tests, admin. of —000368
pub. —0791
Textbooks —02
Theories
based on the pure sci. —015
misc. —016
Theory —01
Titles, honorary, incentive —079
Tools —078
Tracts —04
Training —07
Transactions of acad., soc., etc. —06
Travels, incentive —0793
Trivia —0883
20th century— —0904
Units peculiar to subject —017
Universities and colleges —0711
Use and serviceability
viewpoint —004
Usefulness —013
Utility —013
Vacation courses —0716
Value —013
Varia —088
Vocabularies —03
Voluntary ass'ns, soc., etc. —062
Winter courses —07165
Working and maintenance —00036
Yearbooks —058

Table 3—Languages and Literatures

The table below includes all individual languages and literatures given distinct numbers in the classification, but not some groups not yet subdivided (e.g. 497 Languages and 897 Literatures of North American Indians) nor some languages and literatures named as part of a group which may be subdivided later

Any language in this table may be subdivided like 420, English. Any philologic topic in the index may be transferd to another language by replacing the initial figures of the language, as found in this table, by those of the 2d language also found here: e.g. Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 givs 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452. A 3d way to subdivide the language is to prefix the language figures, as given in this table, to the philologic numbers given in Table 4. All 3 methods giv the same result

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to subdivide any of the literatures in the following table, except Anglo-Saxon, Latin and Greek, for which special literature tables ar provided under 829, 870 and 880 respectivly; and any division of English literature in the index referring to this table may be used in subdividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d literature as given in this table. Thus Ballads; English literature, in the index ar 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads. Any form of any literature may be divided by period like the poetry of that same literature, e.g. 847 may be divided by period like 841

491.58	Afghani	891.58
492.8	African Semitic	892.8
439.36	Afrikaans	839.36
493.56	Agaou	893.56
491.991	Albanian	891.991
492.8	Amharic	892.8
494.813701	Andhra	894.813
429.	Anglo-Saxon	see note
495.92	Annamite	895.92
492.7	Arabic	892.7
492.1	Aramaic	892.1
491.54	Armenian	891.54
491.68	Armoric	891.68
492.19	Assyrian	892.19
492.1	Assyro-Aramaic	892.1
491.52	Avestan, Zend	891.52
492.19	Babylonian	892.19
491.52	Bactrian, Old	891.52
499.223	Bali	899.223
491.591	Baluchi	891.591
491.68	Bas Breton	891.68
491.69	Basque	891.69
499.226	Batak	899.226
493.53	Bedja (Bedouin)	893.53
491.44	Bengali	891.44
491.86	Bohemian	891.86
491.68	Breton	891.68
491.65	Brythonic	891.65
491.81	Bulgarian	891.81
494.23	Buriat	894.23
495.8	Burmese	895.8
496.2	Bushmen, African	896.2
449.9	Catalan	849.9
492.2	Chaldee	892.2
494.521	Cheremissian	894.521
495.1	Chinese	895.1
494.543	Chudic	894.543
491.817071	Church Slavonic	891.81
493.2	Coptic	893.2
491.67	Cornish	891.67
491.83	Croatian	891.83
492.19	Cuneiform	892.19
491.65	Cymric group	891.65
491.66	" or Welsh	891.66
491.86	Czech, Bohemian	891.86
439.81	Danish	839.81
493.55	Dankali	893.55
439.4	Deutsch, Platt	839.4
494.322	Djagataic	894.322
439.31	Dutch	839.31
499.227	Dyak	899.227
493.1	Egyptian, Old	893.1
42	English	82
427.02	" Middle	82
427.01	" Old	82
491.61	Erse, Gadhelic group	891.61
491.63	" Gaelic	891.63
408.92	Esperanto	808.92
494.545	Esthonian	894.545
492.8	Ethiopic, Semitic	892.8

439.6	Faroese	839.6
494.541	Finnish	894.541
439.32	Flemish	839.32
499.212	Formosan	899.212
44	French	84
447.01	" Old	84
439.2	Frisian	839.2
491.61	Gadhelic group	891.61
491.63	Gaelic or Scotch	891.63
469.9	Galician	869.9
493.52	Galla	893.52
499.9621	Georgian	899.9621
43	German	83
439.4	" Low, Plattdeutsch	839.4
439.1	" " Western Germanic	839.1
437.02	" Middle High	83
437.01	" Old High	83
491.61	Goidelic group	891.61
494.823	Gônd	894.823
439.9	Gothic	839.9
48	Greek	see note
491.47	Gujerati	891.47
492.4	Hebrew	892.4
492.9	Himyaritic	892.9
491.43	Hindi	891.43
491.1	Hindu group	891.1
491.43	Hindustani	891.43
494.513	Hongro-ostiak	894.513
496.1	Hottentot	896.1
494.511	Hungarian	894.511
491.531	Huzwaresh	891.531
439.6	Icelandic	839.6
491.1	Indic group	891.1
491.3	" Middle	891.3
491.2	" Old	891.2
491.52	Iranic, East	891.52
491.51	" West	891.51
491.62	Irish	891.62
45	Italian	85
494.322	Jagataic	894.322
495.6	Japanese	895.6
499.222	Javanese	899.222
492.4	Jewish (Hebrew)	892.4
494.22	Kalmuk	894.22
494.422	Kamassin	894.422
494.814	Kanarese	894.814
494.814	Kannada	894.814
494.542	Karélian	894.542
494.824	Khond	894.824
494.34	Kirghiz	894.34
494.816	Kodagu	894.816
495.7	Korean	895.7
494.821	Kôta	894.821
494.824	Kou	894.824
494.544	Krévin	894.544
491.83	Kroatian	891.83
491.57	Kurdish	891.57
	Kymric, *see* Cymric	
459.9	Ladin	859.9
499.213	Ladrones	899.213
494.12	Lamut	894.12
494.55	Lapp	894.55
47	Latin	see note
499.9624	Lazistan	899.9624
491.93	Lettish	891.93
491.92	Lithuanian	891.92
494.546	Livonian	894.546
491.88	Lusatian	891.88
499.214	Madagascar	899.214
499.224	Maduran	899.224
494.511	Magyar	894.511
499.228	Makassar	899.228
499.214	Malagasy	899.214
499.221	Malay	899.221
494.812	Malayalam	894.812
494.13	Manchu	894.13
491.64	Manx	891.64
491.46	Marathi	891.46
499.213	Marianas	899.213
492.9	Minaean	892.9
499.9623	Mingrelian	899.9623
494.21	Mongol, Eastern	894.21
491.871	Moravian	891.871
494.522	Mordvinian	894.522
499.11	Negrito	899.11
491.55	Neopersian	891.55
492.19	Nineveh cuneiform	892.19
494.33	Nogair	894.33
439.5	Norse group	839.5
439.6	" Old	839.6
439.82	Norwegian (Modern Norse)	839.82
494.826	Orâon	894.826
491.45	Orissa	891.45
494.35	Osmanli	894.35

491.56	Ossetic	891.56
494.513	Ostiak, Hongro-	894.513
494.421	" Samoyed	894.421
491.3701	Pali	891.3
491.42	Panjabi	891.42
499.12	Papuan	899.12
491.532	Parsee	891.532
491.531	Pehlevi	891.531
492.5	Pentateuch, lang. of	892.5
494.531	Permian	894.531
491.55	Persian, Modern	891.55
491.51	" Old	891.51
492.3	Peshito, lang. of	892.3
492.6	Phenician	892.6
439.4	Plattdeutsch	839.4
491.89	Polabian	891.89
491.85	Polish	891.85
469.	Portuguese	869.
491.3	Prakrit	891.3
491.3	" Secondary	891.3
449.	Provençal	849.
491.91	Prussian, Old	891.91
491.42	Punjabi	891.42
491.58	Pushtu	891.58
494.825	Râdjmahal	894.825
459.9	Rheto-Romanic	859.9
479.1	Romance	879.
459.9	Romansh	859.9
459.	Rumanian	859.
459.9	Rumansh	859.9
491.7	Russian	891.7
491.79	" Little	891.79
491.79	Russniak	891.79
491.79	Ruthenian	891.79
492.9	Sabean	892.9
493.54	Saho	893.54
492.5	Samaritan	892.5
494.421	Samoyed-ostiak	894.421
494.413	" Yeniseian	894.413
491.2	Sanskrit	891.2
429.	Saxon, Anglo-	see note
439.2	" Old	839.2
439.5	Scandinavian group	839.5
491.63	Scotch or Gaelic	891.63
492.8	Semitic, African or Ethiopic	892.8
491.82	Serbian	891.82
491.82	Serbo-Kroatian	891.82
495.91	Siamese	895.91
491.41	Sindi	891.41
491.48	Singhalese	891.48
491.991	Skipetar	891.991
491.81701	Slavonic, Church	891.81
491.89	" Elbe	891.89
491.872	Slovakian	891.872
491.84	Slovenian	891.84
493.51	Somali	893.51
491.88	Sorabian	891.88
491.88	Sorbian	891.88
46	Spanish	86
499.226	Sumatran	899.226
499.225	Sundanese	899.225
494.541	Suomi	894.541
499.9622	Svanetian	899.9622
439.7	Swedish	839.7
492.3	Syriac	892.3
494.532	Syryenian	894.532
494.811	Tamil	894.811
494.412	Targhi	894.412
494.521	Tcheremissian	894.521
494.813	Telinga	894.813
494.813	Telugu	894.813
495.4	Tibetan	895.4
494.822	Toda	894.822
494.815	Tulu	894.815
494.815	Tuluva	894.815
494.11	Tungus	894.11
494.35	Turkish	894.35
494.323	Turkoman	894.323
494.513	Ugro-ostiak	894.513
494.321	Uigurian	894.321
491.79	Ukrainian	891.79
491.45	Uriya	891.45
494.512	Vogul	894.512
408.91	Volapük	808.91
494.533	Votiak	894.533
491.66	Welsh	891.66
491.88	Wendish	891.88
494.31	Yakut	894.31
494.413	Yeniscian	894.413
492.49	Yiddish	892.49
494.411	Yurak	894.411
491.52	Zend	891.52
494.532	Zyrian	894.532

Table 4. — Philological Divisions.

All the languajes in Table 3 can be divided like 420, English, by adding the figures below: e.g.,

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.8158
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

18	Abbreviations.
12	Ablaut.
16	Accent, pronunciation.
61	" prosody.
51	Accidence.
25	Accusative, etymology.
55	" syntax.
26	Adjectival forms, derivation.
516	Adjectives, inflection.
56	" syntax.
29	Adverbs, derivation.
59	" syntax.
22	Affixes, derivation.
11	Alphabet.
21	Analogy.
53	Analysis, grammar.
67	Antistrophe, prosody.
28	Aorist, etymology.
58	" syntax.
7	Archaisms.
709	Argot.
53	Arrangement of words and clauses.
56	Articles, syntax.
12	Aspirates.
28	Augment, etymology.
83	Barbarisms.
83	Blunders.
25	Case endings, derivation.
55	Cases, syntax.
87	Chrestomathies.
53	Clauses, arrangement of.
516	Comparison, inflection.
26	Comparison, signs of, derivation.
54	Conditional sentences.
518	Conjugation.
29	Conjunctions, etymolog.
59	" syntax.
28	Conjunctive mood, etymology.
58	" " syntax.
13	Consonants.
12	Crasis.
25	Dative case, etymology.
55	" " syntax.
515	Declension of nouns.
2	Derivation of words.
7	Dialects.
3	Dictionaries.
25	Diminutives, derivation.
12	Diphthongs.
17	Diplomatics.
701	Early forms of language.
86	Elementary readers.
53	Ellipsis.
52	Enallage.
83	Errors of speech.
2	Etymology, derivation.
51	" inflection.
89	Examination papers.
63	Feet, prosody.
64	Figures of prosody.
82	First lessons.
63	Foot prosody.
24	Foreign elements.
25	Gender, etymolgy.
25	Genitive case, etymology
55	" " syntax.
7	Glossaries, dialects.
3	" language.
83	Grammatical errors.
65	Hexameters.
64	Hiatus.
4	Homonyms.
54	Hypothetical sentences
31	Idioms.
88	Individual authors, texts.
28	Infinitive mood, etymology.
58	" " syntax
51	Inflection.
516	" of adjectives.
515	" " nouns.
517	" " pronouns.
518	" " verbs.
17	Inscriptions.
29	Interjections, etymology.
59	" syntax.
29	Interrogativs, etymology.
59	" syntax.
21	Laws of language.

1 Letters, alphabet.
3 Lexicography.
3 Lexicons.
17 Manuscripts
65 Meters, prosody.
825 Modifications, special.
28 Moods, signs of, derivation.
58 " syntax.
51 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions. "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relativ pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
824 " " for foreigners.
68 " " " writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

For Biscoe time and Olin book number schemes and Special author tables: Shakespeare, Milton, etc. see editions 11, 12 and 13. See also Bertha R Barden, *Book numbers*, A.L.A., 1937.

582 Systematic and taxonomic botany

Abridged from Universal Decimal Classification, English ed., 1939. See also 561 Paleobotany. The following classification follows that of the 1936 edition of Engler-Diels' 'Syllabus der pflanzenfamilien'

582.2–.3 Cryptogamia Flowerless plants Spore plants

582.21 Cryptogamia in general
.22 Thallophyta
.23 Schizophyta
.231 Schizomycetes Bacteria
.232 Schizophyceae Phycochromaceae Cyanophyceae Oscillatoriaceae (Lyngbyaceae), Scytonemataceae, Stigonemataceae (Sirosiphonaceae), Nostocaceae, Rivulariaceae, Chroococcaceae, Chamaesiphonaceae, etc.
.24 Myxomycetes Myxothallophyta Mycetozoa Phytosarcodina Slime fungi
.241 Acrasiales .242 Hydromyxales Plakopodaceae, Vampyrellaceae
.244 Myxogasteres
2 Exosporales Ectosporeae Ceratiomyxaceae
3 Endosporeae
4 Cribrariales Cribrariaceae
6 Enteridiales Reticulariaceae, Tubiferaceae, Lycogalaceae, etc.
.2452 Liceales Liceaceae, Listerellaceae
3 Stemonitales Amaurochaetaceae, Stemonitaceae, Collodermaceae, Echinosteliaceae, etc.
5 Physarales Physaraceae, Didymiaceae
6 Margaritales Margaritaceae
8 Trichiales Arcyriaceae, Trichiaceae
.25 Flagellae Flagellates
.251 Flagellatae
1 Pantostomatales Holomastigaceae, Rhizomastigaceae
2 Distomatales (Diastomatales) Distomataceae (Diastomataceae)
3 Protomastigales Oicomonadaceae, Bicoecaceae, Craspemonadaceae, Phalansteriaceae, Monadaceae, Bodonaceae, Amphimonadaceae, Trimastigaceae, Tetramitaceae, etc.
4 Chrysomonadales Chromulinaceae, Hymenomonadaceae, Ochromonadaceae, etc.
5 Cryptomonadales Cryptomonadaceae, etc.
6 Chloromonadales Chloromonadaceae, etc.
7 Euglenales Euglenaceae, Astasiaceae, Peranemataceae
.252 Dinoflagellatae Peridinales Peridineae Cilioflagellatae
.253 Adiniferidea
1 Athecatales Athecatoidae
2 Thecatales Thecatoidae Prorocentricae: Prorocentraceae, etc.

582.254 Diniferidea
1 Gymnodiniales Gymnodinioidae
2 Protodiniferaceae, 3 Gymnodiniaceae, 4 Polykrikaceae, 5 Noctilucaceae, 6 Pouchetiaceae, 7 Blastodiniaceae
9 Peridiniales Peridinioidae Peridiniaceae
255 Doubtful Dinoflagellatae Cystodiniidae, Amphilothioideae, Cystoflagellata, etc.
.258 Silicoflagellatae
1 Siphonotestales Dictyochaceae
2 Stereotestales Ebriaceae
.259 Heterocontae Heterochloridaceae, Botryococcaceae, Chlorobotrydaceae, Chlorotheciaceae, Ophiocytiaceae, Tribonemaceae, Botrydiaceae, etc.
.26 Algae Seaweeds
.261 Bacillariophyta (Diatomeae) Bacillariales
1 Centricae Discaceae, Soleniaceae, Biddulphiaceae, Rutilariaceae, etc.
5 Pennales Pennatae
Fragilariaceae (Diatomaceae), Eunotiaceae, Achnanthaceae, Naviculaceae, Epithemiaceae, Nitzschiaceae, etc.
.262 Conjugatae
2 Desmidiales Desmids Mesotaeniaceae, Desmidiaceae, etc.
3 Zygnematales Zygnemataceae, Mesocarpaceae, etc.
.263 Chlorophyceae Green algae
.264 Protococcales
1 Volvocales Chlamydomonaceae, Volvocaceae, etc.
4 Euprotococcales
Tetrasporaceae, Chlorosphaeraceae, Pleurococcaceae, Protococcaceae, Oocystaceae, Hydrodictyaceae, Coelastraceae, Protosiphonaceae, etc.
.265 Ulotrichales (Confervales)
Ulvaceae, Ulotrichaceae, Blastosporaceae, Wittrockiellaceae, Chaetophoraceae, Trentepohliaceae, Chroolepidaceae, Chaetopeltidaceae, Aphanochaetaceae, Coleochaetaceae, Cylindrocapsaceae, Oedogoniaceae, etc.
.266 Siphonocladales
Valoniaceae, Siphonocladaceae, Cladophoraceae, Dasycladaceae, Sphaeropleaceae, etc.
.267 Siphonales
Bryopsidaceae, Derbesiaceae, Caulerpaceae, Phyllosiphonaceae, Codiaceae, Vaucheriaceae
.271 Charophyta Stoneworts Characeae, etc.
.272 Phaeophyceae Brown algae
Ectocarpales
Ectocarpaceae, Mesogloeaceae, Corynophlaeaceae, Myrionemataceae, Elachistaceae, Spermatochnaceae, Desmarestiaceae, Sporochnaceae, Punctariaceae, Scytosiphonaceae, Dictyosiphonaceae, Asperococcaceae, Hydroclathraceae, Giffordiaceae, etc.
2 Sphacelariales Sphacelariaceae
3 Cutleriales Cutleriaceae, etc.
4 Dictyotales Dictyotaceae
46 Laminariales Laminariaceae, Chordaceae, etc.
6 Tilopteridales Tilopteridaceae, Choristocarpaceae
7 Fucales Durvilleaceae, Fucaceae, Notheiaceae, etc.

582.273 Rhodophyceae Red algae
.274 Bangiales Bangiaceae, Rhodochaetaceae, Compsopogonaceae
.275 Florideae
1 Nemalionales Gelidiales
12 Nemalionales Lemaneaceae, Helminthocladiaceae, Thoreaceae, Chatangiaceae
17 Gelidiales Gelidiaceae, Wrangeliaceae, etc.
2 Cryptonemiales
Gloiosiphoniaceae, Grateloupiaceae, Dumontiaceae, Rhizophyllidaceae, Squamariaceae, Corallinaceae, etc.
3 Gigartinales
Nemastomaceae, Plocamiaceae, Sphaerococcaceae, Rhodophyllidaceae, Gigartinaceae, Phyllophoraceae, etc.
4 Rhodymeniales Rhodymeniaceae
5 Ceramiales Ceramiaceae, Rhodomelaceae, Delesseriaceae
.28 Eumycetes True fungi Mycology
.281 Phycomycetes Algal fungi
1 Oomycetes
11 Monoblepharidales Monoblepharidineae
Blastocladiaceae, Monoblepharidaceae
12 Saprolegniales Saprolegniineae
Saprolegniaceae, Leptomitaceae
13 Ancylistales Ancylistineae
Lagenidiaceae, Ancylistaceae
14 Peronosporales Peronosporineae
Albuginaceae, Peronosporaceae, Pythiaceae
2 Zygomycetes
21 Mucorales Mucorineae Mold fungi
Mucoraceae, Choanephoraceae, Mortierellaceae, Chaetocladiaceae, Piptocephalidaceae
22 Entomophthorales Entomophthorineae Entomophthoraceae
23 Endogonales Endogonineae Endogonaceae
24 Basidiobolales Basidiobolineae Basidiobolaceae
25 Chytridiales Chytridiineae
Cladochytriaceae, Hypochytriaceae, Rhizidiaceae, Olpidiaceae, Synchytriaceae, Plasmodiophoraceae, etc.
.282 Ascomycetes
0 Spermophthorales Spermophthoraceae
1 Euascales
11 Perisporiineae Erysiphaceae, Paropsidaceae, Perisporiaceae, Microthyriaceae, etc.
12 Plectascineae
Gymnoascaceae, Aspergillaceae, Onygenaceae, Trichocomaceae, Elaphomycetaceae, Terfeziaceae, Myriangiaceae, etc.
13 Phacidiineae Stictidaceae, Tryblidiaceae, Phacidiaceae
14 Protocaliciineae Protocaliciaceae
15 Hysteriineae Hypodermataceae, Dichaenaceae, Ostropaceae, Hysteriaceae, etc.
16 Pezizineae
Pyronemataceae, Pezizaceae, Ascobolaceae, Helotiaceae, Mollisiaceae, Celidiaceae, Patellariaceae, Cenangiaceae, Cordieritidaceae, Cyttariaceae

582.28217 Helvellineae Rhizinaceae, Geoglossaceae, Helvellaceae
18 Tuberineae Truffles Eutuberaceae, Balsamiaceae, etc.
19 Pyrenomycetineae Pyrenomycetes
Hypocreaceae; Dothideaceae; Sphaeriaceales: Sordariaceae, Chaetomiaceae, Sphaeriaceae, Ceratostomataceae, Cucurbitariaceae, Coryneliaceae, Amphisphaeriaceae, Lophiostomataceae, Mycosphaerellaceae, Pleosporaceae, Massariaceae, Gnomoniaceae, Clypeosphaeriaceae, Valsaceae, Melanconidaceae, Diatrypaceae, Melogrammataceae, Xylariaceae, etc.
2 Hemiascomycetes
21 Protodiscineae Exoascaceae Taphrinaceae, Ascocorticiaceae, etc.
22 Protoascineae Eremascaceae. Dipodascaceae, Endomycetaceae, etc.
23 Saccharomycetineae Saccharomycetaceae Yeasts
3 Laboulbeniales Peyritschiellaceae, Laboulbeniaceae, Ceratomycetaceae
.283 Protomycetes Protomycetineae Protomycetaceae
.284 Basidiomycetes Carposporeae
.285 Hemibasidii Hemibasidiomycetes
1 Ustilaginales Smut fungi Ustilaginaceae, Tilletiaceae
2 Uredinales Rust fungi
Pucciniaceae, Endophyllaceae, Schizosporaceae, Cronartiaceae, Coleosporiaceae, Melampsoraceae, etc.
.287 Eubasidii
1 Protobasidiomycetes
11 Auriculariineae Auriculariaceae, Pilacraceae
12 Tremellineae Sirobasidiaceae, Tremellaceae, Hyaloriaceae
2 Autobasidiomycetes Gasteromycetes
21 Dacryomycetineae Dacryomycetaceae
22 Exobasidiineae Exobasidiaceae, etc.
23 Hymenomycetineae Hymenomycetes
Tulasnellaceae, Corticiaceae, Thelephoraceae, Clavariaceae, Hydnaceae, Polyporaceae, Agaricaceae
24 Sclerodermatineae (Plectobasidiineae)
Podaxaceae, Sclerodermataceae, Calostomataceae, Sphaerobolaceae, Tulostomataceae
247 Protogastrineae 248 Protogastraceae
25 Hymenogastrineae Hymenogastraceae
26 Lycoperdineae Puffballs Lycoperdaceae, etc.
27 Nidulariineae Nidulariaceae
28 Phallineae Clathraceae, Phallaceae (stinkhorn fungi)
.288 Fungi imperfecti
1 Conidic
2 Sphaeropsidales Sphaerioideaceae, Nectrioideaceae, Leptostromataceae, Excipulaceae
3 Melanconiales Melanconiaceae
4 Hyphomycetes Mucedinaceae, Dematiaceae, Stilbaceae, Tuberculariaceae
5 Mycelic
.29 Lichenes Lichens
.290 Phycolichenes Geosiphonaceae

582.291 Ascolichenes
.292 Pyrenocarpeae Angiocarpae
Moriolaceae, Epigloeaceae, Verrucariaceae, Dermatocarpaceae, Pyrenothamniaceae, Pyrenulaceae, Phyllopyreniaceae, Trypetheliaceae, Paratheliaceae, Astrotheliaceae, Strigulaceae, Pyrenidiaceae, Mycoporaceae, etc.
.293 Gymnocarpeae Discolichenes Gelatinosae, Byssaceae
1 Coniocarpineae Caliciaceae, Cypheliaceae, Sphaerophoraceae
2 Graphidineae
Arthoniaceae, Graphidaceae, Chiodectonaceae, Dirinaceae, Roccellaceae
3 Cyclocarpineae
Lecanactidaceae, Pilocarpaceae, Chrysotrichaceae, Thelotremataceae, Diploschistaceae, Ectolechiaceae, Gyalectaceae, Coenogoniaceae, Lecideaceae, Phyllopsoraceae, Cladoniaceae, Gyrophoraceae, Acarosporaceae, Ephebaceae, Pyrenopsidaceae, Lichinaceae, Collemataceae, Heppiaceae, Pannariaceae, Stictaceae, Peltigeraceae, Pertusariaceae, Lecanoraceae, Parmeliaceae, Usneaceae, Caloplacaceae, Theloschistaceae, Buelliaceae, Physciaceae, etc.
.296 Basidiolichenes Hymenolichenes, etc.

582.31 **Archegoniatae Embryophyta asiphonogama**

.32 Bryophyta (Muscineae) Mosses and liverworts
.33 Hepaticae Liverworts
.331 Marchantiales
Marchantiaceae: Corsinioideae, Targionioideae, Marchantioideae; Ricciaceae
.332 Anthocerotales Anthocerotaceae
.333 Jungermanniales
Jungermanniaceae anacrogynae: Sphaerocarpoideae, Rielloideae, Metzgerioideae, Leptothecoideae, Fossombronioideae, Haplomitrioideae; Jungermanniaceae acrogynae: Epigoniantheae, Trigonantheae, Ptilidioideae, Scapanioideae, Stephaninoideae, Pleurozioideae, Bellincinioideae, Jubuloideae
.34 Musci Mosses
.341 Sphagnales Sphagnaceae Bog mosses (large)
.342 Andreaeales Andreaeaceae
.343 Bryales
.344 Eubryinales
1 Fissidentales Fissidentaceae
2 Dicranales
Archidiaceae, Ditrichaceae, Bryoxiphiaceae, Seligeraceae, Dicranaceae, Dicnemonaceae, Pleurophascaceae, Leucobryaceae, etc.
3 Pottiales Calymperaceae, Encalyptaceae, Pottiaceae, etc.
4 Grimmiales Grimmiaceae
5 Funariales
Gigaspermaceae, Disceliaceae, Ephemeraceae, Funariaceae, Oedipodiaceae, Splachnaceae
6 Schistostegales Schistostegaceae
7 Tetraphidales Georgiaceae

582.3448 Eubryales
Bryaceae: Orthodontioideae, Bryoideae, Mielichhoferioideae; Leptostomaceae, Mniaceae, Drepanophyllaceae, Eustichiaceae, Sorapillaceae, Mitteniaceae, Calomniaceae, Rhizogoniaceae, Hypnodendraceae, Aulacomniaceae, Meeseaceae, Catoscopiaceae, Bartramiaceae, Spiridentaceae, Timmiaceae, etc.
9 Isobryales
Erpodiaceae, Ptychomitriaceae, Orthotrichaceae, Helicophyllaceae, Rhacopilaceae, Fontinalaceae, Climaciaceae, Hedwigiaceae, Cryphaeaceae, Leucodontaceae, Cyrtopodaceae, Prionodontaceae, Ptychomniaceae, Myuriaceae, Lepyrodontaceae, Rutenbergiaceae, Trachypodaceae, Pterobryaceae, Meteoriaceae, Phyllogoniaceae, Neckeraceae, Lembophyllaceae, Echinodiaceae
94 Hookeriales Nemataceae
95 Pilotrichaceae, Hookeriaceae, Hypopterygiaceae
.3451 Hypnobryales
Fabroniaceae, Leskeaceae, Thuidiaceae, Amblystegiaceae, Brachytheciaceae, Entodontaceae, Plagiotheciaceae, Sematophyllaceae, Hypnaceae, Rhytidiaceae, Hylocomiaceae, etc.
.346 Buxbaumiinales
1 Buxbaumiales Buxbaumiaceae
2 Diphysciales Diphysiaceae
.347 Polytrichinales
1 Polytrichales Polytrichaceae
2 Dawsoniales Dawsoniaceae
.35 Pteridophyta Ferns Fern-like spore plants
.352 Psilophytinae Psilophytales
Rhyniaceae, Psuedosporochnaceae, Asteroxylaceae
.37 Articulatae
.370 Protoarticulatales Hyeniaceae
.371 Sphenophyllales Sphenophyllaceae
.372 Cheirostrobales Cheirostrobaceae
.373 Pseudoborniales Pseudoborniaceae
.374 Equisetales Horsetails
2 Euequisetales Equisetaceae True horsetails
5 Calamitales Calamariales Calamitaceae, etc.
.38 Lycopodiinae Lycopodiales
.381 Lycopodiales eligulatae Club mosses
Lycopodiaceae (true club mosses), Cyclostigmaceae
.382 Selaginellales Lycopodiales ligulatae
2 Selaginellineae Selaginellaceae
3 Lepidophytineae
4 Lepidodendraceae, 5 Ulodendraceae, 6 Bothrodendraceae, 8 Sigillariaceae, 9 Pleuromeiaceae
.391 Psilotinae Psilotales Psilotaceae
.392 Isoetinae Isoetales Isoetaceae, quillworts
.394 Filicinae Filicales
Fossil ferns of uncertain relationship: Tieteaceae, Knoripterideae, Rhizomopterideae, Inversicatenales, etc.
2 Eusporangiatae
4 Ophioglossales Ophioglossaceae, adders' tongue ferns
6 Marattiales Marattiaceae Psaronieae

582.3947 Leptosporangiatae
72 Eufilicales Eufilicineae True ferns
Osmundaceae, Schizaeaceae, Matoniaceae, Gleicheniaceae
73 Hymenophyllaceae, Loxsomaceae, Cyatheaceae (tree ferns), Dipteridaceae
74 Polypodiaceae, Parkeriaceae, etc.
75 Hydropteridales Hydropteridineae Marsiliaceae, Salviniaceae

582.4 Embryophyta siphonogama Phanerogamia Spermatophyta Seed plants

.42 Gymnospermae Naked seed plants The first seed plants
.43 Cycadofilicales Pteridospermae Fern-like seed plants
Lyginodendraceae, Medullosaceae, Cladoxylaceae, Cycadoxylaceae, Protopityaceae, etc. Fossil plants having characteristics common to Cycadofilicales and Filicales: Archaeopterides, Sphenopterides, Pecopterides, Alethopterides, Callipterides, Odontopterides, Neuropterides, Taeniopterides, Glossopterides, Megalopterides, etc.
.44 Cycadales Cycadaceae, etc.
.45 Bennettitales Bennettitaceae, Nilssoniaceae, Caytoniaceae
.46 Ginkgoales Ginkgoaceae, maidenhair trees, etc.
.465 Cordaitales Cordaitaceae, Pityaceae, etc.
.47 Coniferae
Taxaceae (yews); Podocarpaceae: Pherosphaeroideae, Podocarpoideae, Phyllocladoideae; Araucariaceae; Cephalotaxaceae; Pinaceae (pines, firs, etc.): Abietoideae, Pinoideae, etc.; Taxodiaceae (Swamp cypresses, etc.): Sciadopityoideae, Taxodioideae; Cupressaceae (Cypresses, etc.): Thujoideae, Cupressoideae, Juniperoideae (junipers, etc.)
.49 Gnetales Ephedraceae, Welwitschiaceae, Gnetaceae, etc.
.5 Angiospermae Covered seed plants
.52 Monocotyledoneae Monocotyledones
.522 Pandanales
1 Typhaceae Bulrushes
2 Pandanaceae Screw pines
3 Sparganiaceae
.53 Helobiae Helobieae Fluviales Apocarpeae, etc.
.531 Potamogetonineae
.532 Potamogetonaceae, .533 Naiadaceae, .534 Aponogetonaceae, .535 Scheuchzeriaceae, Juncaginaceae
.536 Alismatineae Alismataceae
.537 Butomineae
2 Butomaceae, .539 Hydrocharitaceae (Frog's bit): Stratiotoideae, Thalassioideae, Vallisnerioideae, Halophiloideae
.541 Triuridales Triuridaceae
.542 Glumiflorae
1 Gramineae Grasses
2 Cyperaceae Sedges
3 Caricoideae, 4 Scirpoideae
.545 Principes Palmae Palms
Coryphoideae, Borassoideae, Lepidocaryoideae, Ceroxyloideae, Phytelephantoideae, Nipoideae

582.546–.547 Nudiflorae

582.546 Synanthae Cyclanthaceae
.547 Spathiflorae Spadiciflorae
1 Araceae Arums
Pothoideae, Monsteroideae, Calloideae, Lasioideae, Philodendroideae, Colocasioideae, Aroideae, Pistioideae
2 Lemnaceae Duckweeds Lemnoideae, Wolffioideae
.55–.56 Farinosae Coronarieae
.551 Flagellariineae Flagellariaceae
.553 Enantioblastae
.554 Restionaceae, .555 Centrolepidaceae, .556 Mayacaceae, .557 Xyridaceae, .558 Eriocaulaceae: Eriocauloideae, Paepalanthoideae
.561 Bromeliineae
.562 Thurniaceae, .563 Rapateaceae, .564 Bromeliaceae, pineapples
.565 Commelinineae Commelinaceae Spiderworts
.566 Pontederiineae
.567 Pontederiaceae, .568 Cyanastraceae
.569 Philydrineae Philydraceae

582.57–.58 Epigynae

.57 Liliiflorae Liliales
.571 Juncineae Juncaceae Rushes
.572 Liliineae
1 Stemonaceae Roxburghiaceae
2 Liliaceae
Melanthioideae, Herrerioideae, Asphodeloideae, Allioideae, Lilioideae, Scilloideae, Dracaenoideae, Asparagoideae, Ophiopogonoideae, Aletroideae, Luzuriagoideae, Smilacoideae, etc.
Haemodoraceae
3 Amaryllidaceae Narcissi
4 Amaryllidoideae, Agavoideae, Hypoxidoideae, Campynematoideae
Valloziaceae 6 Taccaceae
5 Dioscoreaceae Yams
7 Iridineae Iridaceae Irises
.579 Scitamineae Arillatae Musales
.58 Musaceae (bananas): Strelitzioideae, Musoideae, Lowioideae; Zingiberaceae (ginger): Zingiberoideae, Costoideae; Cannaceae; Marantaceae (arrowroot)
.59 Microspermae Orchidales
.592 Burmanniineae Burmanniaceae
.594 Gynandrae Orchidaceae (orchids): Pleonandrae (Diandrae), Monandrae
.599 Anonomaliae Other monocotyledones
.61 Dicotyledoneae Dicotyledones
.62–.69 Archichlamydeae Choripetalae Apetalae Polypetalae, etc.

582.62–.63 Unisexuales

582.621 Verticillatae Casuarinaceae
.622 Piperales Micrembryeae
Saururaceae, Piperaceae (peppers), Chloranthaceae
6 Hydrostachyales Hydrostachyaceae
.623 Salicales Salicaceae Willows
.624 Garryales Garryaceae
.625 Myricales Myricaceae
.626 Balanopsidales Balanopsidaceae
.627 Leitneriales Leitneriaceae
.628 Juglandales Juglandaceae Walnuts
.629 Batidales Batidaceae
.631 Julianiales Julianiaceae
.632 Fagales Cupuliferae
1 Betulaceae Birches, etc.
2 Fagaceae Beeches, oaks
.635 Urticales
Ulmaceae (elms): Ulmoideae, Celtidoideae, Barbeyoideae; Rhoipteleaceae; Moraceae (mulberries): Moroideae, Artocarpoideae, Conocephaloideae, Cannaboideae (hemp); Urticaceae (nettles), etc.
.637 Podostemonales
Multiovulatae aquaticae, Podostemonineae. Podostemonaceae
.639 Proteales Proteaceae Persoonioidea, Grevilleoideae
.64 Santalales Achlamydosporeae
.641 Santalineae
2 Olacaceae; Dysolacoideae, Olacoideae, Schoepfioideae; 3 Opiliaceae; 4 Oktoknemaceae, Octoknemataceae; 5 Grubbiaceae; 6 Santalaceae, Sandalwood
.642 Myzodendraceae
.65 Aristolochiales Multiovulatae terrestres, Aristolochiaceae
.651 [sic] Loranthineae
Loranthaceae (mistletoe): Loranthoideae, Viscoideae; Rafflesiaceae, Cytinaceae; Hydnoraceae
.653 Balanophorales Balanophorineae Balanophoraceae
Mystropetaloideae, Dactylanthoideae, Sarcophytoideae, Lophophytoideae, Helosidoideae, Balanophoroideae
.657 Polygonales Polygonaceae Buckwheat
Eriogonoideae, Polygonoideae, Coccoloboideae
.66 Centrospermae Curvembryeae, etc.
.661 Chenopodiineae
.662 Chenopodiaceae Goosefoot
.663 Amarantaceae Foxtail Amarantoideae, Gomphrenoideae
.664 Phytolaccineae
1 Nyctaginaceae; 3 Phytolaccaceae: Phytolaccoideae, Stegnospermoideae; 5 Gyrostemonaceae; 7 Achatocarpaceae; 8 Aizoaceae: Ficoideae, etc.
.665 Portulacineae
.666 Portulacaceae Purslanes
Portulacoideae, Montioideae
.667 Basellaceae .668 Dysphaniaceae
.669 Caryophyllineae Caryophyllaceae Carnations
Paronychioidea, Alsinoideae, Silenoideae, etc.

582.67 Ranales
.671 Nymphaeineae
1 Nymphaeaceae Waterlilies
Nelumbonoideae, Cabomboideae, Nymphaeoideae
2 Ceratophyllaceae Hornworts
.672 Trochodendrineae Trochodendraceae, Cercidiphyllaceae (Judas tree)
.675 Ranunculineae
1 Ranunculaceae, etc. Crowfoot
2 Lardizabalaceae, etc.
3 Berberidaceae Barberry Podophylloideae, Berberidoideae
4 Menispermaceae Moonseed
.677 Magnoliineae
Himantandraceae, Lactoridaceae, Eupomatiaceae, Gomortegaceae, etc.
1 Magnoliaceae, etc. 7 Myristicaceae Nutmeg
3 Calycanthaceae 9 Monimiaceae
5 Anonaceae Monimioideae, Atherospermoideae
.678 Lauraceae (laurels) Hernandiaceae
Perseoideae (camphor tree), Lauroideae, etc.
.68 Rhoeadales
.681 Rhoeadineae
.682 Papaveraceae Poppies
Hypecooideae, Papaveroideae, Fumarioideae
.683 Capparidineae
1 Capparidaceae
Dipterygioideae, Capparidoideae, Koeberlinioideae, Roydsioideae, Emblingioideae, Cleomoideae
2 Cruciferae 3 Tovariaceae
.684 Resedineae Resedaceae Mignonet
.685 Moringineae Moringaceae Ben nut
.686 Bretschneiderineae Bretschneideraceae
.69 Sarraceniales
.691 Sarraceniaceae
.692 Nepenthaceae Pitcherplants
.693 Droseraceae Sundews
.71 Rosales
.714 Saxifragineae
.715 Crassulaceae (stonecrops, houseleeks, etc.) .716 Cephalotaceae
.717 Saxifragaceae
Penthoroideae, Saxifragoideae, Hydrangeoideae, Pterostemonoideae, Escallonioideae, Ribesioideae, Baueroideae, etc.
.718 Pittosporaceae, .719 Byblidaceae, .721 Brunelliaceae, .722 Cunoniaceae, .723 Myrothamnaceae, .724 Bruniaceae
.725 Hamamelidaceae Witch hazel
Disanthoideae, Hamamelidoideae, Rhodoleioideae, Bucklandioideae, Liquidambaroideae
.726 Roridulaceae .727 Eucommiaceae

582.731 Rosineae
.732 Platanaceae (plane tree) .733 Crossosomataceae
.734 Rosaceae Roses
Spiraeoideae, Pomoideae (apples), Rosoideae, Neuradoideae, Prunoideae (plums), Chrysobalanoideae, etc.
.735 Connaraceae
.736 Leguminosae
.737 Mimosoideae, .738 Caesalpinioideae, etc., .739 Papilionatae, etc. (peas, beans)
.74 Pandales Pandaceae
.75 Geraniales
.751 Geraniineae
1 Oxalidaceae (wood sorrel), 2 Geraniaceae (geranium, cranesbill, storksbill), 3 Tropaeolaceae (nasturtiums), 4 Linaceae (flax): Linoideae, Ctenolophonoideae, Ixonanthoideae, Humirioideae (Humiriaceae), 6 Erythroxylaceae (coca), 7 Zygophyllaceae: Peganoideae, Chitonioideae, Tetradiclidoideae, Augeoideae, Zygophylloideae, Nitrarioideae, Balanitoideae; 8 Cneoraceae, 9 Rutaceae (rue): Rutoideae, Dictyolomoideae, Flindersioideae, Spathelioideae, Toddalioideae, Aurantioideae, Rhabdodendroideae
.7521 Simarubaceae Surianoideae, Simaruboideae, Picramnioideae, Alvaradoideae
2 Burseraceae Balsam tree, myrrh
3 Meliaceae Cedreloideae, Swietenioideae, Melioideae
4 Akaniaceae
.754 Malpighiineae
1 Malpighiaceae, 2 Trigoniaceae, 3 Vochysiaceae
.755 Polygalineae Polygalinae
1 Tremandraceae, 2 Polygalaceae (milkworts)
.756 Dichapetalineae Dichapetalaceae, Chailletiaceae
.757 Tricoccae
Euphorbiaceae (spurge): Phyllanthoideae, Crotonoideae, Porantheroideae, Ricinocarpoideae; Daphniphyllaceae
.759 Callitrichineae Callitrichaceae, water starworts
.76–.77 Sapindales Celastrales
.761 Buxineae Buxaceae Box
.762 Empetrineae Empetraceae Crowberry
.763 Coriariineae Coriariaceae
.764 Limnanthineae Limnanthaceae
.765 Anacardiineae Anacardiaceae Sumac, mango
.766 Celastrineae
1 Cyrillaceae, 2 Pentaphylacaceae, 3 Corynocarpaceae, 4 Aquifoliaceae, Ilicoideae, Ilicineae, etc. (holly); 5 Celastraceae (spindle tree), 6 Hippocrateaceae, 7 Salvadoraceae, 8 Stackhousiaceae, 9 Staphyleaceae
.771 Icacinineae Icacinaceae
.772 Sapindineae
1 Aextoxicaceae, 2 Aceraceae (maple), 3 Hippocastanaceae (horse chestnut, etc.), 4 Sapindaceae (soapberry tree)
.773 Sabiineae Sabiaceae
.774 Melianthineae Melianthaceae, etc.
.775 Didiereineae Didiereaceae
.776 Balsamininineae Balsaminaceae Balsam weed

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.782 Rhamnaceae Buckthorn
.783 Vitaceae Ampelidaceae Vines, grapevine
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.79 Malvales
.791 Elaeocarpineae Elaeocarpaceae
.792 Chlaenineae Chlaenaceae, etc.
.793 Malvineae
.794 Gonystilaceae, .795 Tiliaceae, Linden (limes); .796 Malvaceae, Mallows, etc.; .797 Bombacaceae, Cotton tree; .798 Sterculiaceae
.799 Scytopetalineae Scytopetalaceae
.81 Parietales Cistales
.812 Theineae Guttiferales
.813 Dilleniaceae, .814 Actinidiaceae, etc.. .815 Eucryphiaceae, .816 Medusagynaceae, .817 Ochnaceae, .818 Strasburgeriaceae, .819 Caryocaraceae (butternut, etc.), .821 Marcgraviaceae, .822 Quiinaceae, .823 Theaceae, Camelliaceae, Ternstroemiaceae (tea); .824 Guttiferae, etc.: Kielmeyeroideae, Hypericoideae, (Hypericineae, etc.), Calophylloidea, Clusioideae (gamboge, mangosteen), Moronoboideae; .825 Dipterocarpaceae: Dipterocarpoideae, Monotoideae
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.835 Cistineae
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.839 Cochlospermineae Cochlospermaceae
.841 Lacistemineae Lacistemaceae
.842 Flacourtiineae Passiflorales
1 Canellaceae, Winteranaceae, 2 Violaceae (violets), 3 Flacourtiaceae, 4 Stachyuraceae, 5 Turneraceae, 6 Malesherbiaceae, 7 Passifloraceae (passion flower), 8 Achariaceae
.843 Papayineae Caricaceae Papaw
.844 Loasineae Loasaceae, etc.
.845 Datiscineae Datiscaceae
.846 Begoniineae Begoniaceae
.847 Ancistrocladineae Ancistrocladaceae
.85 Opuntiales Cactales
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.86 Myrtiflorae Myrtales
.861 Thymelaeineae
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.872 Lythraceae (loosestrife), .873 Heteropyxidaceae, .874 Sonneratiaceae, .875 Crypteroniaceae, .876 Punicaceae (pomegranate), .877 Lecythidaceae (monkeypot tree, etc.): Foetidioideae, Planchonioideae, Napoleonoideae, Lecythidoideae; .878 Rhizophoraceae (mangroves): Rhizophoroideae, Anisophylleoideae; .879 Nyssaceae: Nyssoideae, Davidioideae; .881 Alangiaceae, .882 Combretaceae, .883 Myrtaceae (myrtles): Myrtoideae, Leptospermoideae; .884 Melastomataceae, Melastomaceae: Melastomatoideae, Astronioideae, Memecyloideae; .885 Hydrocaryaceae (horn nut, etc.), .886 Oenotheraceae, Onagraceae (evening primrose), .887 Halorrhagaceae: Halorrhagoideae, Gunneroideae
.888 Hippuridineae Hippuridaceae (mare's tail), Thelygonacae, etc.
.889 Cynomoriineae Cynomoriaceae
.89 Umbelliflorae
.892 Araliaceae (ivy, etc.), .893 Umbelliferae: Hydrocotyloideae, Saniculoideae, Apioideae, etc.; .894 Cornaceae (dogwood): Mastixioideae, Curtisioideae, Cornoideae
.9 Metachlamydeae Sympetalae Gamopetalae, etc.
.911 Diapensiales Diapensiaceae
.912 Ericales Heaths
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7 Epacridineae Epacridaceae Australian heaths, etc.
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.919 Plumbaginales Plumbaginaceae Plumbagineae, leadwort, etc.
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.922 Sapotaceae, .923 Hoplestigmataceae
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.93 Contortae
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.934 Desfontaineaceae, .935 Loganiaceae (nux vomica): Loganioideae, Buddleioideae; .936 Gentianaceae (gentian): Gentianoideae, Menyanthoideae; .937 Apocynaceae: Plumieroideae, Echitoideae; .938 Asclepiadaceae (silkweed, etc.): Periplocoideae, Cynanchoideae

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.942 Convolvulaceae (bindweed, etc.): Convolvuloideae, Cuscutoideae; .943 Polemoniaceae (Jacob's ladder, phlox, etc.): Cobaeoideae, Polemonioideae; .944 Fouquieraceae

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1 Hydrophyllaceae, 2 Boraginaceae (borage, forget-me-not): Cordioideae, Ehretioideae, Heliotropioideae, Boraginoideae, Wellstedioideae

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.951 Solanineae Personales, etc.

2 Nolanaceae, 4 Solanaceae (deadly nightshade, potato), 6 Scrophulariaceae (figwort, etc.): Pseudosolanoideae, Antirrhinoideae, Rhinanthoideae, etc.; 8 Bignoniaceae (calabash, etc.)

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.955 Acanthineae Acanthaceae

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.956 Myoporineae Myoporaceae

.957 Phrymineae Phrymaceae

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Bryaceae	582.3448	588.21415
Bryales	582.343	588.21
Bryineae	582.3448	588.21415

	CD	DC
Bryoideae	582.3448	588.21415
Bryology	582.34	588.2
Bryophyta	582.32	588
Bryopsidaceae	582.267	589.4727
Bryosiphiaceae	582.3442	588.21473
Buckbean	582.936	583.751
Buckeye	582.7723	583.285
Bucklandioideae	582.725	583.394
Buckthorn	582.782	583.2791
southern	582.922	583.6811
Buckwheat	582.657	583.917
Buddleioideae	582.935	583.74
Buelliaceae	582.2933	589.171
Bugseed tumbleweed	582.662	583.914
Bulrushes Cyperaceae	582.5424	584.841
Typhaceae	582.5221	584.613
Bunch flower	582.5722	584.321
Bunts fungi	582.2851	589.2272
Burdock	582.998	583.5533
Burmanniaceae	582.592	584.13
Burning bush Celastraceae	582.7665	583.272
Chenopodiaceae	582.662	583.914
Rutaceae	582.7519	583.23
Urticaceae	582.635	583.9621
Bur-reeds	582.5223	584.612
Burseraceae	582.7522	583.247
Butomineae	582.537	584.73
Butter-and-egs	582.9516	583.81
Buttercup Ranunculaceae	582.6751	583.111
Rosaceae	582.734	583.37
Butternut blight	582.2883	589.243
Caryocaraceae	582.819	583.1665
Juglandaceae	582.628	583.9731
Butterwort	582.9534	583.825
Button bush	582.972	583.52
tree Combretaceae	582.882	583.414
Platanaceae	582.732	583.971
weed Carduaceae	582.998	583.5533
Malvaceae	582.796	583.172
Rubiaceae	582.972	583.52
Buttonwood Combretaceae	582.882	583.414
Platanaceae	582.732	583.971
Rubiaceae	582.972	583.52
Buxaceae	582.761	583.293
Buxbaumiales	582.3461	588.2122
Buxbaumiinales	582.346	588.212
Buxineae	582.761	583.293
Buzzard's nose fungi	582.28728	589.2215
Byblidaceae	582.719	583.392
Byssaceae	582.293	589.19
Byssolomaceae	582.2933	589.171
Cabbage	582.6832	583.123
Cabombaceae	582.6711	583.118
Cabomboideae	582.6711	583.118
Cactaceae	582.85	583.471
Cactus	582.85	583.471
Caesalpinioideae	582.738	583.323
Calabash Bignoniaceae	582.9518	583.84
Cucurbitaceae	582.98	583.461
Calamariales	582.3745	587.212
Calamitales	582.3745	587.212
Calamites	582.37	587.2
old	582.3745	587.212
Calamophyta	582.37	587.2
Calamopityaceae	582.43	585.954
Calamus Araceae	582.5471	584.65
palm	582.545	584.5
Calendulaceae	582.998	583.5535
Caliciaceae	582.2931	589.173

	CD	DC
Callipterides	582.43	585.976
Callitrichaceae	582.759	583.253
Calloideae	582.5471	584.65
Calomniaceae	582.3448	588.21414
Calophylloideae	582.824	583.163
Caloplacaceae	582.2933	589.171
Calostomataceae	582.28724	589.2219
Caltrop	582.7517	583.221
Calycanthaceae	582.6773	583.113
Calyceraceae	582.997	583.546
Calyciflorae	582.7	583.3-.497
apopetalae	582.7-.8	583.26-.497
gamopetalae	582.97-.99	583.51-.591
Calycinae	582.545	584.4
Calymperaceae	582.3443	588.21463
Calysereae	582.997	583.546
Camelliaceae	582.823	583.166
Camomile	582.998	583.5537
Campanales	582.99	583.57
Campanulaceae	582.992	583.59
Campanulatae	582.99	583.57
Campanuloideae	582.992	583.59
Camphor Diptcrocarpaceae	582.285	583.167
Lauraceae	582.678	583.931
Campions	582.669	583.153
Camptotrichaceae	582.232	589.83
Campynematoideae	582.5722	584.25
Canary bird flower	582.7513	583.225
grasses	582.5421	584.932
Candlewood	582.944	583.762
Candolleaceae	582.996	583.571
Canellaceae	582.8421	583.137
Canna	582.58	584.212
Cannabinaceae	582.635	583.9623
Cannabis	582.635	583.9623
Cannaboideae	582.635	583.9623
Cannaceae	582.58	584.212
Capers	582.6831	583.131
Capparidales	582.683	583.13
Capparidineae	582.683	583.13
Capparidoideae	582.6831	583.131
Caprifoliaceae	582.973	583.511
Caraway	582.893	583.481
Cardinal flower	582.992	583.591
Carduaceae	582.998	583.5533
Caricaceae	582.843	583.462
Caricoideae	582.5423	584.841
Carnations	582.669	583.152
Carolina jessamin	582.935	583.74
Carpet weed	582.6648	583.475
Carpoascomycetes	582.2821	589.233
Carpomyceteae	582.28	589.2
Carposporeae algae	582.273	589.4
fungi	582.284	589.21
Carrot	582.893	583.481
Caryocaraceae	582.819	583.1665
Caryophyllineae	582.669	583.15
Cascara	582.782	583.2791
Cashew	582.765	583.292
Cassiaceae	582.738	583.323
Castor oil plants	582.757	583.951
Casuarinaceae	582.621	583.975
Catalpa	582.9518	583.84
Catascopiaceae	582.3448	588.21412
Catchflies	582.669	583.153
Catnip	582.9492	583.891
Catopherioideae	582.9492	583.891
Catoscopiaceae	582.3448	588.21412
Cat's-ear	582.998	583.552

	CD	DC
Cattails	582.5221	584.613
Caulerpaceae	582.267	589.4726
Caytoniaceae	582.45	585.921
Cedars	582.47	585.215-.216
Cedrelaceae	582.7523	583.251
Cedreloideae	582.7523	583.251
Celandine, greater	582.682	583.1221
lesser	582.6751	583.111
Celastraceae	582.7665	583.272
Celastrales	582.766	583.27
Celastrineae	582.766	583.271
Celery	582.893	583.481
Celidiaceae	582.28216	589.2332
Celtidoideae	582.635	583.9625
Cenangiaceae	582.28216	589.2332
Centricae	582.2611	589.622
Centrolepidaceae	582.555	584.82
Centrospermae	582.66	583.91
Cephalotaceae	582.716	583.391
Cephalotaxaceae	582.47	585.222
Ceramiales	582.2755	589.412
Ceratiomyxaceae	582.2442	589.2931
Ceratomycetaceae	582.2823	589.232
Ceratophyllaceae	582.6712	583.1182
Ceratopteridaceae	582.39474	587.3126
Ceratostomataceae	582.28219	589.2351
Cercidiphyllaceae	582.672	583.1192
Cereals	582.5421	584.9
Ceroxyloideae	582.545	584.5
Chaetangiaceae	582.27512	589.416
Chaetocerotaceae	582.2611	589.6222
Chaetocladiaceae	582.28121	589.281
Chaetomiaceae	582.28219	589.2351
Chaetopeltidaceae	582.265	589.47426
Chaetophoraceae	582.265	589.47428
Chailletiaceae	582.756	583.255
Chain fern	582.38474	587.3127
Chamaesiphonaceae	582.232	589.84
Chapote	582.925	583.6851
Characeae	582.271	588.41
Charophyta	582.271	588.4
Checker berry	582.9124	583.62
Cheiranthodendraceae	582.798	583.18
Cheirostrobales	582.372	587.23
Chenopodiaceae	582.662	583.914
Chenopodiales	582.66	583.913
Chenopodiineae	582.661	583.914
Cherry	582.734	583.37
Chestnut	582.6322	583.977
see also distinctiv names		
Chickweed	582.669	583.1542
Indian	582.6648	583.475
Chicory	582.998	583.552
Chinkapin, Chinquapin	582.6322	583.977
Chiodectonaceae	582.2932	589.172
Chitonioideae	582.7517	583.221
Chittam wood	582.765	583.292
Chive	582.5722	584.32
Chlaenineae	582.792	583.168
Chlamydobacteriaceae	582.231	589.953
Chlamydomonaceae	582.2641	589.47534
Chlamydomonadales	582.2641	589.47534
Chloramoebales	582.2516	589.4854
Chloranthaceae	582.622	583.926
Chlorellaceae	582.2644	589.47522
Chlorideae	582.5421	584.935
Chlorobotrydaceae	582.259	589.484
Chlorococcaceae	582.2644	589.47523

	CD	DC
Chlorococcales	582.2644	589.4752
Chlorodendrales	582.2641	589.47533
Chloromonadales	582.2516	589.9743
Chlorophyceae	582.263	589.47
Chlorophyllaceae	582.232	589.8
Chlorospermeae	582.263	589.47
Chlorosphaeraceae	582.2644	589.47523
Chlorotheciaceae	582.259	589.484
Choanephoraceae	582.28121	589.281
Chordaceae	582.27246	589.454
Chordariaceae	582.2721	589.457
Choripetalae	582.62-.69	583.1
Choristocarpaceae	582.2726	589.453
Chromulinaceae	582.2514	589.974555
Chroococcaceae	582.232	589.82
Chroolepidaceae	582.265	589.47427
Chrysanthemums	582.998	583.5537
Chrysobalanoideae	582.734	583.37
Chrysocapsales	582.2514	589.974552
Chrysomonadales	582.2514	589.97455
Chrysophyceae	582.2514	589.9745
Chrysosphaerales	582.2514	589.97454
Chrysotrichaceae	582.2933	589.171
Chrysotrichales	582.2514	589.97453
Chufa	582.5423	584.841
Chytridiineae	582.28125	589.285
Cichoriaceae	582.998	583.552
Cilioflagellatae	582.252	589.973
Cinchonoideae	582.972	583.52
Cineraria	582.998	583.5536
Cinnamon Lauraceae	582.678	583.931
wild Canellaceae	582.8421	583.137
Circaeasteraceae	582.6751	583.1173
Cistaceae	582.8352	583.134
Cistales	582.81	583.12
Cistineae	582.835	583.134
Cladochytriaceae	582.28125	589.285
Cladoniaceae	582.2933	589.171
Cladophoraceae	582.266	589.4733
Cladoxylaceae	582.43	585.962
Clathraceae	582.28728	589.2215
Clathroptychiaceae	582.2446	589.2932
Clavariaceae	582.28723	589.222
Clematis	582.6751	583.111
Cleomoideae	582.6831	583.131
Clethraceae	582.9122	583.622
Climaciaceae	582.3449	588.21533
Closteriaceae	582.2622	589.613
Clotbur	582.998	583.5546
Clove	582.883	583.42
Clover	582.739	583.322
Club mosses	582.38	587.9
common	582.381	587.922
higher	582.382	587.91
lower	582.381	587.92
true	582.381	587.922
rushes	582.5424	584.841
Clusiaceae	582.824	583.163
Clusioideae	582.824	583.163
Clypeosphaeriaceae	582.28219	589.2351
Cneoraceae	582.7518	583.242
Cobaeoideae	582.943	583.7611
Coca	582.7516	583.212
Cocain	582.7516	583.212
Coccaceae	582.231	589.953
Coccogonales	582.232	589.82
Coccolithophoraceae	582.2514	589.974552
Coccoloboideae	582.657	583.917

	CD	DC
Cocculus	582.6754	583.116
Cochlospermaceae	582.839	583.136
Coco	582.798	583.18
Codiaceae	582.267	589.4723
Coelastraceae	582.2644	589.47522
Coenobiales	582.2641	589.47534
Coenogoniaceae	582.2933	589.171
Coffee	582.972	583.52
Coffeoideae	582.972	583.52
Cohosh, blue Berberidaceae	582.6753	583.117
Ranunculaceae	582.6751	583.111
Cola	582.798	583.18
Coleochaetaceae	582.265	589.47424
Coleosporiaceae	582.2852	589.225
Collemataceae	582.2933	589.171
Collodermaceae	582.2453	589.2932
Colocasioideae	582.5471	584.65
Coltsfoot	582.998	583.5536
Columbine	582.6751	583.111
Columelliaceae	582.9532	583.829
Columniferae	582.79	583.17
Combretaceae	582.882	583.414
Commelinaceae	582.565	584.38
Compositae	582.998	583.55
Compsopogonaceae	582.274	589.42
Confervaceae	582.265	589.47434
Confervales	582.265	589.474
Conidic fungi imperfecti	582.2881	589.241
Coniferae	582.47	585.2
Coniferales	582.47	585.21
Coniocarpineae	582.2931	589.173
Conjugatae	582.262	589.61
Conjugate algae	582.261-.262	589.6
Connaraceae	582.735	583.311
Conocephaloideae	582.635	583.9622
Contortae	582.93	583.7
Convallariaceae	582.5722	584.322
Convolvulales	582.941	583.78
Convolvulineae	582.941	583.78
Convolvulus	582.942	583.78
Conyza	582.998	583.5543
Coral fungi	582.28723	589.222
root	582.594	584.15
Corallinaceae	582.2752	589.415
Cordaitales	582.465	585.5
Cordieritidaceae	582.28216	589.2332
Cordioideae	582.9482	583.77
Cordleaf	582.554	584.83
Coreopsis	582.998	583.5547
Coriariineae	582.763	583.297
Corkwood	582.627	583.972
Corn marigold	582.998	583.5537
Cornaceae	582.894	583.497
Cornel	582.894	583.497
Cornflower Carduaceae	582.998	583.5533
Cornoideae	582.894	583.497
Corolliflorae	582.9	583.5
Coronarieae	582.55-.56	584.3
Corsinioideae	582.331	588.333
Corticiaceae	582.28723	589.222
Corylaceae	582.6321	583.979
Coryneliaceae	582.28219	589.2351
Corynocarpaceae	582.7663	583.275
Corynophlaeaceae	582.2721	589.457
Coryphoideae	582.545	584.5
Coscinodiscaceae	582.2611	589.6224
Cosmariaceae	582.2622	589.613
Costoideae	582.58	584.213

	CD	DC
Cotton	582.796	583.172
grass	582.5424	584.841
tree	582.797	583.173
Cowhage cherry	582.7541	583.214
Fabaceae	582.739	583.322
Cowslip Primulaceae	582.9183	583.672
Ranunculaceae	582.6751	583.111
Cranberry scald	582.2882	589.242
tree	582.973	583.511
Vacciniaceae	582.9124	583.611
Cranesbil	582.7512	583.223
Craspedomonadaceae	582.2513	589.9746
Crassulaceae	582.715	583.39
Crataegus	582.734	583.37
Cress	582.6832	583.123
see also distinctive names		
Cribrariales	582.2444	589.2932
Cronartiaceae	582.2852	589.225
Crossomataceae	582.733	583.36
Crotonoideae	582.757	583.951
Crowberry	582.762	583.984
Crowfoot	582.6751	583.111
Cruciales	582.6832	583.123
Cruciferae	582.6832	583.123
Cryphaeaceae	582.3449	588.21532
Crypteroniaceae	582.875	583.444
Cryptococcales	582.2515	589.97442
Cryptogamia	582.2–.3	586
Cryptomonadales	582.2515	589.97444
Cryptonemiales	582.2752	589.415
Cryptophyceae	582.2515	589.9744
Cryptoraphideae	582.2611	589.622
Ctenolophonoideae	582.7514	583.211
Cucumber blight	582.28114	589.252
Cucurbitaceae	582.98	583.461
tree magnolia	582.6771	583.114
Oxalidaceae	582.7511	583.224
Cucurbitales	582.98	583.46
Cucurbitariaceae	582.28219	589.2351
Cunoniaceae	582.722	583.397
Cup fungi	582.28216	589.2332
little	582.28213	589.2335
Cupressaceae	582.47	585.214
Cupseed	582.6754	583.116
Cupuliferae	582.632	583.976
Curatella	582.813	583.112
Curtisioideae	582.894	583.497
Curvembryeae	582.66	583.91
Cuscutoideae	582.942	583.781
Cushion mosses	582.3442	588.21471
Custard apple	582.6775	583.115
Cutleriales	582.2723	589.455
Cyanastraceae	582.568	584.331
Cyanophyceae	582.232	589.8
Cyatheaceae	582.39473	587.3128
Cycadales	582.44	585.91
Cycadineae	582.44	585.91
Cycadofilicales	582.43	585.95
Cycadophyta	582.43–.45	585.9
Cycadoxylaceae	582.43	585.961
Cycas	582.44	585.911
Cyclamen	582.9183	583.672
Cyclanthaceae	582.546	584.62
Cyclocarpineae	582.2933	589.171
Cyclosporeae	582.2727	589.452
Cyclostigmaceae	582.381	587.921
Cylindrocapsaceae	582.265	589.47423
Cymbellaceae	582.2615	589.6234

	CD	DC
Cynanchoideae	582.938	583.73
Cynareae	582.998	583.5533
Cynocrambaceae	582.888	583.9152
Cynomoriineae	582.889	583.447
Cyperaceae	582.5422	584.841
Cypheliaceae	582.2931	589.173
Cyphioideae	582.992	583.59
Cypresses	582.47	585.214
bald	582.47	585.211
flowering	582.8316	583.158
mock	582.662	583.914
swamp	582.47	585.211
Cyrillaceae	582.7661	583.273
Cyrtandroideae	582.9528	583.83
Cyrtopodaceae	582.3449	588.21532
Cystodiniidae	582.255	589.9735
Cystoflagellata	582.255	589.9735
Cytinaceae	582.651	583.923
Cyttariaceae	582.28216	589.2332
Dacryomycetineae	582.28721	589.2214
Dactylanthoideae	582.653	583.947
Dahlia	582.998	583.5547
Daisy	582.998	583.5543
Dammar tree	582.825	583.167
Dandelion	582.998	583.552
Daphniphyllaceae	582.757	583.951
Dasycladaceae	582.266	589.4734
Datiscaceae	582.845	583.469
Davidioideae	582.879	583.415
Dawsoniales	582.3472	588.2112
Deadnettle	582.9492	583.891
Delesseriaceae	582.2755	589.412
Dematiaceae	582.2884	589.2411
Deniferina	582.254	589.9732
Derbesiaceae	582.267	589.4725
Dermatocarpaceae	582.292	589.16
Desfontaineaceae	582.934	583.741
Desmarestiaceae	582.2721	589.457
Desmidiales	582.2622	589.613
Desmids	582.2622	589.613–.614
Deuteromycetes	582.288	589.24
Devil's snuffbox	582.28726	589.2217
Dialypetalae	582.62–.69	583.1
Diandrae	582.594	584.15
Diapensiaceae	582.911	583.65
Diastomatales	582.2512	589.9747
Diatomaceae	582.2615	589.6236
Diatomeae	582.261	589.62
Diatrypaceae	582.28219	589.2351
Dicarpellatae	582.93–.96	583.7–.8
Dichaenaceae	582.28215	589.2333
Dichapetalineae	582.756	583.255
Dichtyochaceae	582.2581	589.9722
Dichtyochidae	582.258	589.972
Diclidantheraceae	582.926	583.6861
Dicnemonaceae	582.3442	588.21473
Dicotyledoneae	582.61	583
Dicranales	582.3442	588.2147
Dictyochaceae	582.2581	589.9722
Dictyolomoideae	582.7519	583.23
Dictyosiphonaceae	582.2721	589.457
Dictyosphaeriaceae	582.266	589.47422
Dictyosteliaceae	582.241	589.292
Dictyotales	582.2724	589.451
Didiereineae	582.775	583.288
Didymiaceae	582.2455	589.2932
Dilleniaceae	582.813	583.112
Diniferidea	582.254	589.9732

	CD	DC
Dinoflagellatae	582.252	589.973
doubtful	582.255	589.9735
Dinophyceae	582.252	589.973
Dioscoreaceae	582.5727	584.27
Diospyrineae	582.924	583.685
Diphysciales	582.3462	588.2121
Diploschistaceae	582.2933	589.171
Dipodascaceae	582.28222	589.2362
Dipsaceae	582.977	583.541
Dipteridaceae	582.39473	587.3124
Dipterocarpaceae	582.825	583.167
Dipterygioideae	582.6831	583.131
Dirinaceae	582.2932	589.172
Disanthoideae	582.725	583.394
Discaceae	582.2611	589.6224
Disceliaceae	582.3445	588.21442
Disciflorae	582.7–.8	583.2
Discoideae	582.2611	589.6224
Discolichenes	582.293	589.171
Discomycetes	582.2821	589.233
Disk lichens	582.2933	589.171
Distomatales	582.2512	589.9747
Ditrichaceae	582.3442	588.21473
Dock	582.657	583.917
Dodder	582.942	583.781
Dog cabbage	582.888	583.9152
fennel	582.998	583.5544
Dogbane	582.937	583.721
Dog's-tooth violet	582.5722	584.32
Dogwood	582.894	583.497
Donatioideae	582.996	583.571
Dothideaceae	582.28219	589.2353
Downy mildews	582.28114	589.252
Dracaenoideae	582.5722	584.32
Drepanophyllaceae	582.3448	588.21414
Droseraceae	582.693	583.393
Drupaceae	582.734	583.37
Drypetes	582.757	583.951
Duckweed	582.5472	584.68
Dumontiaceae	582.2752	589.415
Durvilleaceae	582.2727	589.452
Dwarf club mosses	582.382	587.912
Dysolaceoideae	582.6412	583.26
Dysphaniaceae	582.668	583.156
Ear fungi	582.28711	589.2231
Earthnut Apiaceae	582.893	583.481
Cyperaceae	582.5423	584.841
peanuts	582.739	583.322
truffles	582.28218	589.231
Earthstar fungi	582.28726	589.2217
Earth-tongues	582.28217	589.2331
Ebenaceae	582.925	583.6851
Ebenales	582.92	583.68
Ebony	582.925	583.6851
Ebriaceae	582.2582	589.9723
Echinodiaceae	582.3449	588.21531
Echinosteliaceae	582.2453	589.2932
Echitoideae	582.937	583.721
Ectocarpales	582.2721	589.457
Ectolechiaceae	582.2933	589.171
Ectosporeae	582.2442	589.2931
Edelweiss	582.998	583.5542
Eel grass Hydrales	582.539	584.11
potamogeton	582.532	584.742
Egg spore fungi	582.2811	589.251
Ehretioideae	582.9482	583.77
Elachistaceae	582.2721	589.457
Elaeagnaceae	582.866	583.935

	CD	DC
Elaeocarpineae	582.791	583.192
Elaphomycetaceae	582.28212	589.238
Elatinaceae	582.8312	583.161
Elder	582.973	583.511
Elephant's-foot Dioscoreaceae	582.5727	584.27
Vernoniaceae	582.998	583.5545
Eligulate lycopodiales	582.381	587.92
Elms	582.635	583.9625
Emblingioideae	582.6831	583.131
Embryophyta asiphonogama	582.31	587–588
siphonogama	582.4	582
zoidiogama	582.31	587–588
Empetrineae	582.762	583.984
Enantioblastae	582.553	584.81
Encalyptaceae	582.3443	588.21462
Encoeliaceae	582.2721	589.457
Endive	582.998	583.552
Endogonineae	582.28123	589.283
Endomycetaceae	582.28222	589.2362
Endophyllaceae	582.2852	589.225
Endosporeae	582.2443	589.2932
Enteridiales	582.2446	589.2932
Entodontaceae	582.3451	588.21511
Entomophthorales	582.28122	589.282
Epacridaceae	582.9127	583.64
Epacris	582.9127	583.64
Ephebaceae	582.2933	589.171
Ephedraceae	582.49	585.13
Ephemeraceae	582.3445	588.21442
Epigloeaceae	582.292	589.16
Epigoniantheae	582.333	588.311
Epigynae	582.57–.58	584.2
Epithemiaceae	582.2615	589.623
Equisetae	582.3742	587.211
Equisetales	582.374	587.21
Equisetineae	582.374	587.21
Eremascaceae	582.28222	589.2362
Eremosphaeraceae	582.2644	589.47522
Ergot	582.28219	589.2354
Ericaceae	582.9124	583.62
Ericales	582.912	583.6
Ericineae	582.9121	583.61
Ericoideae	582.9124	583.62
Eriocaulaceae	582.558	584.811
Eriogonoideae	582.657	583.917
Erpodiaceae	582.3449	588.21535
Erysibaceae	582.28211	589.2355
Erysiphaceae	582.28211	589.2355
Erythroxylaceae	582.7516	583.212
Escallonioideae	582.717	583.381
Euascales	582.2821	589.233
Eubacteria	582.231	589.953
Eubasidii	582.287	589.22
Eubasidiomycetes	582.287	589.22
Eubryales	582.3448	588.2141
Eubryinales	582.344	588.213
Eucaliptus	582.883	583.42
Euchlorophyceae	582.263	589.47
Euchromulinaceae	582.2514	589.974555
Eucommiaceae	582.727	583.3943
Euconjugatae	582.262	589.61
Eucryphiaceae	582.815	583.164
Eudorina	582.2641	589.47534
Euequisetales	582.3742	587.211
Eufilicinea	582.39472	587.312
Euflagellatae	582.251	589.974
Eufloridea	582.275	589.411

	CD	DC
Euglenales	582.2517	589.9742
Euhymenomonadaceae	582.2514	580.974554
Eumycetes	582.28	589.2
Eunotiaceae	582.2615	589.6236
Euodiaceae	582.2611	589.6222
Eupatoriaceae	582.998	583.5544
Euphaeophyceae	582.272	589.45
Euphorbiaceae	582.757	583.951
Euplasmodida	582.244	589.293
Eupodiscaceae	582.2611	589.6224
Eupodiscales	582.2611	589.622
Eupomatiaceae	582.677	583.1152
Euprotococcales	582.2644	589.4752
Eusporangiatae	582.3942	587.33
Eustichiaceae	582.3448	588.21414
Eutuberaceae	582.28218	589.231
Eu-ulotrichales	582.265	589.4743
Evergreens coniferae	582.47	585.2
Everlastings	582.998	583.5542
Excipulaceae	582.2882	589.242
Exoasceae	582.28221	589.237
Exobasidiineae	582.28722	589.2213
Exosporales	582.2442	589.2931
Exuviaella	582.2532	589.97333
Fabaceae	582.739	583.322
Fabroniaceae	582.3451	588.21512
Fagaceae	582.6322	583.977
Fagales	582.632	583.976
Fairy clubs fungi	582.28723	589.222
False mermaid	582.764	583.294
Farinosae	582.55–.56	584.3
Felts, green	582.267	589.472
Fennel	582.893	583.481
Fernlike plants	582.35	587
seed plants	582.43	585.95
Ferns	582.394	587.3
common	582.39474	587.3127
modern	582.3947	587.31
old fashiond	582.3942	587.33
true	582.39472	587.312
uncertain	582.394	587.38
see also distinctive names		
Fescue grasses	582.5421	584.936
Festuceae	582.5421	584.936
Fever-bush Cornaceae	582.894	583.497
Garryaceae	582.624	583.982
Ilicineae	582.7664	583.2781
Lauraceae	582.678	583.931
Fever-few	582.998	583.5537
Ficoidales	582.6648	583.47
Ficoideae	582.6648	583.475
Fiddlewood	582.9491	583.881
Fig marigold	582.6648	583.475
Figs	582.635	583.9622
see also distinctive names		
Figwort	582.9516	583.81
Filamentous lichens	582.293	589.19
Filaree	582.7512	583.223
Filbert	582.6321	583.979
Filicaceae	582.39472	587.312
Filicales	582.394	587.3
Filicinae	582.394	587.3
Filmy ferns	582.39473	587.3129
Firs	582.47	585.213
Fissidentales	582.3441	588.2148
Fission algae	582.232	589.8
fungi	582.231	589.95
Flacourtiaceae	582.8423	583.139

	CD	DC
Flacourtiineae	582.842	583.139
Flagellae	582.25	589.97
Flagellariineae	582.551	584.41
Flagellatae	582.251	589.974
Flagellates	582.25	589.97
Flat diatoms	582.2615	589.623
Flax	582.7514	583.211
Fleur-de-lis	582.579	584.24
Flindersioideae	582.7519	583.23
Floating ferns	582.39475	587.3111
Florideae	582.275	589.411
Flowering ferns	582.39472	587.3121
mosses	582.911	583.65
plants	582.5	583–584
rushes	582.5372	584.73
Flowerless plants	582.2–.3	586
Fluviales	582.53	584.72
Fly fungi	582.28122	589.282
mold	582.28122	589.282
Foetidioideae	582.877	583.423
Fontinalaceae	582.3449	588.21533
Forget-me-not	582.9482	583.77
Forsythea	582.931	583.71
Fossombronioideae	582.333	588.312
Fouquieraceae	582.944	583.762
Four-o'clock	582.6641	583.9153
Foxtail	582.663	583.9131
Fragilariaceae	582.2615	589.6236
Frankeniaceae	582.8314	583.151
Fringe tree	582.931	583.71
Frog's bit	582.539	584.11
Fucales	582.2727	585.452
Fumarioideae	582.682	583.1223
Funariales	582.3445	588.2144
Fungi	582.28	589.2
closed	582.28219	589.235
imperfecti	582.288	589.24
lowest	582.2812	589.28
see also distinctive names		
Gaertneria	582.998	583.5546
Gamboge	582.824	583.163
Gamopetalae	582.9	583.5
Garlic	582.5722	584.32
Garryales	582.624	583.982
Gas plant	582.7519	583.23
Gasterolichenes	582.296	589.112
Gasteromycetes	582.2872	589.221
Gaultheria	582.9124	583.62
Gazania	582.998	583.5534
Geiger tree	582.9482	583.77
Geissolomataceae	582.862	583.936
Gelatinosae	582.293	589.18
Gelatinous lichens	582.293	589.18
Gelidiales	582.27517	589.416
Gentianaceae	582.936	583.75
Gentianales	582.93	583.7
Gentianeae	582.936	583.75
Gentianineae	582.933	583.72
Geoglossaceae	582.28217	589.2331
Georgiaceae	582.3447	588.2142
Geosiphonaceae	582.290	589.242
Geraniaceae	582.7512	583.223
Geraniales	582.75	583.21
Germaniaceae	582.657	583.917
Gesneraceae	582.9528	583.83
Giffordiaceae	582.2721	589.457
Gigartinales	582.2753	589.414
Gigaspermaceae	582.3445	588.21442
Gilgiodaphnoideae	582.865	583.9331
Gillbearing fungi	582.28723	589.222

	CD	DC
Ginger	582.58	584.24
wild Aristolochiaceae	582.65	583.924
Ginkgoales	582.46	585.7
Ginseng	582.892	583.491
Glaucocystales	582.282	589.85
Gleicheniaceae	582.39472	587.3123
Globe daisy	582.9536	583.823
Globulariaceae	582.9536	583.823
Gloiosiphoniaceae	582.2752	589.415
Glossopterides	582.43	585.972
Glumaceae	582.542	584.8
Glumiflorae	582.542	584.84
Gnetales	582.49	585.1
Gnetum climbers	582.49	585.11
Gnomoniaceae	582.28219	589.2351
Goatsbeard	582.998	583.552
Golden spoon tree	582.7541	583.214
Goldenrod	582.998	583.5543
Gomortegaceae	582.677	583.1148
Gomphonemaceae	582.2615	589.6234
Gomphrenoideae	582.663	583.9131
Gonatozygaceae	582.2623	589.612
Gonystilaceae	582.794	583.191
Gonystyloideae	582.865	583.9331
Goodeniaceae	582.994	583.58
Goodenovieae	582.994	583.58
Gooseberry	582.717	583.381
Goosefoot	582.662	583.914
Gourds	582.98	583.461
Graminaceae	582.5421	584.9
Graminales	582.542	584.8
Gramineae	582.5421	584.9
Gramma grasses	582.5421	584.935
Grape blight	582.28114	589.252
Grapes	582.783	583.2792
Graphidineae	582.2932	589.172
Grasses	582.5421	584.9
Grateloupiaceae	582.2752	589.415
Great liverworts	582.331	588.33
Green algae	582.263	589.47
slimes	582.264	589.475
Grevilleoideae	582.639	583.932
Greyiaceae	582.774	583.2872
Grimmiales	582.3444	588.2145
Grossulariaceae	582.717	583.381
Ground pines	582.381	587.922
Groundsel	582.998	583.5536
Grubbiaceae	582.6415	583.946
Guava	582.883	583.42
Gumbo	582.796	583.172
Gunneroideae	582.887	583.417
Gurjun-balsam	582.825	583.167
Guttiferaceae	582.824	583.163
Guttiferae	582.824	583.163
Guttiferales	582.812	583.16
Guttulinaceae	582.241	589.292
Gyalectaceae	582.2933	589.171
Gymnoascaceae	582.28212	589.238
Gymnocarpeae	582.293	589.17
Gymnodiniaceae	582.2543	589.973236
Gymnodiniales	582.2541	589.97323
Gymnodiniidae	582.2543	589.973236
Gymnodinioidae	582.2541	589.97323
Gymnospermae	582.42	585
Gynandrae	582.594	584.15
Gyrophoraceae	582.2933	589.171
Gyrostemonaceae	582.6645	583.915

	CD	DC
Hackberry Prunaceae	582.734	583.37
Ulmaceae	582.635	583.9625
Haemodoraceae	582.5723	584.231
Haircaps	582.3471	588.2111
Hala	582.5222	584.611
Halapepe	582.5722	584.32
Halophiloideae	582.539	584.11
Haloragaceae	582.887	583.417
Halorrhagaceae	582.887	583.417
Hamamelidaceae	582.725	583.394
Haplomitrioideae	582.333	588.312
Harebell Campanulaceae	582.992	583.59
Liliaceae	582.5722	584.32
Harpochytriaceae	582.259	589.484
Harts'-tongues	582.39474	587.3127
Haw Rosaceae	582.734	583.37
Hawk-bit	582.998	583.552
Hawkweed	582.998	583.552
Hawthorn	582.734	583.37
Hazelnut	582.6321	583.979
Heath shrubs, dwarf	582.9516	583.876
Heather	582.9124	583.62
Empetraceae	582.762	583.984
Heaths, Australian	582.9127	583.64
Empetraceae	582.762	583.984
Ericales	582.912	583.6
Hedge laurel	582.718	583.141
Hedgehog fungi	582.28723	589.222
Hedwigiaceae	582.3449	588.21532
Heleniaceae	582.998	583.5538
Helianthaceae	582.998	583.5547
Helicophyllaceae	582.3449	588.21535
Heliotrope	582.9482	583.77
Heliotropioideae	582.9482	583.77
Helminthocladiaceae	582.27512	589.416
Helobiae	582.53	584.72
Helosidoideae	582.653	583.947
Helotiaceae	582.28216	589.2332
Helvellineae	582.28217	589.2331
Hemiascales	582.2822	589.236
Hemiascomycetes	582.2822	589.236
Hemibasidii	582.285	589.224
Hemlock	582.47	585.213
poison	582.893	583.481
Hemp	582.635	583.9623
agrimony	582.998	583.5544
see also distinctive names		
Hepatica	582.6751	583.111
Hepaticae	582.33	588.3
Heppiaceae	582.2933	589.171
Hercules club Araliaceae	582.892	583.491
Cucurbitaceae	582.98	583.461
Rutaceae	582.7519	583.23
Hernandiaceae	582.678	583.9312
Herposteiraceae	582.265	589.47425
Herrerioideae	582.5722	584.32
Heterocapsales	582.259	589.4852
Heterochloridaceae	582.259	589.4854
Heterochloridales	582.259	589.485
Heterococcales	582.259	589.484
Heterocontae	582.259	589.48
Heteromerae	582.91–.92	583.6–.6864
Heteropyxidaceae	582.873	583.442
Heterosiphonales	582.259	589.482
Heterotrichales	582.259	589.483
Hexenbesen	582.28221	589.237
Hickory	582.628	583.9731
Himantandraceae	582.677	583.1144

	CD	DC
Himanthaliaceae	582.2727	589.452
Hippocastanaceae	582.7723	583.285
Hippocrateaceae	582.7666	583.276
Hippuridineae	582.888	583.446
Hog plum Anacardiaceae	582.765	583.292
Drupaceae	582.734	583.37
Olacaceae	582.6412	583.26
Hogweed Ambrosiaceae	582.998	583.5546
Asteraceae	582.998	583.5543
Eupatoriaceae	582.998	583.5544
Liguliflorae	582.998	583.552
Nyctaginaceae	582.6641	583.9153
Polygonaceae	582.657	583.917
Umbelliferae	582.893	583.481
Holly	582.7664	583.2781
rose	582.8425	583.455
Holomastigaceae	582.2511	589.9748
Holoplastideae	582.232	589.85
Honcy flower	582.639	583.932
plant	582.774	583.2871
Honeysuckle	582.973	583.511
Hookeriaceae	582.34495	588.21521
Hookeriales	**582.34494**	**588.2152**
Hop tree	582.7519	583.23
Hoplestigmataceae	582.923	583.6812
Hops	582.635	583.9622
Hordeae	582.5421	584.937
Horehound	582.9492	583.891
Hormogonales	582.232	589.83
Horn nut	582.885	583.413
Hornbeam	582.6321	583.978
Hornworts Anthocerotales	582.332	588.32
Ceratophyllaceae	582.6712	583.1182
Horse chestnut	582.7723	583.285
Horsetails	**582.374**	587.211
Horseweed	582.998	583.5543
Houseleek	582.715	583.39
Huckleberry	582.9124	583.611
Humiriaceae	582.7514	583.213
Humpback mosses	582.3461	588.2122
Hyacinth	582.5722	584.32
Hyaloriaceae	582.28712	589.2232
Hyalovolvocaceae	582.2641	589.47534
Hydnaceae	582.28723	589.222
Hydnoraceae	582.651	583.9222
Hydrales	582.539	584.11
Hydrangeoideae	582.717	583.381
Hydrocaryaceae	582.885	583.413
Hydrocharitaceae	582.539	584.11
Hydroclathraceae	582.2721	589.457
Hydrocotyloideae	582.893	583.481
Hydrodictyaceae	582.2644	589.47523
Hydrogastraceae	582.259	589.482
Hydromyxales	582.242	589.29
Hydrophyllaceae	582.9481	583.764
Hydropteridineae	582.39475	**587.311**
Hydrostachyaceae	582.6226	583.9211
Hydruraceae	582.2514	589.974552
Hyeniaceae	582.370	587.2122
Hylocomiaceae	582.3451	588.21511
Hymenogastrineae	582.28725	589.2216
Hymenolichenes	582.296	589.111
Hymenomonadaceae	582.2514	589.974554
Hymenomycetineae	582.28723	589.222
Hymenophyllaceae	582.39473	587.3129
Hypecooideae	582.682	583.1221
Hypericales	**582.81**	**583.12**
Hypericineae	582.824	583.162

	CD	DC
Hypericum	582.824	583.162
Hyphomycetes	582.2884	589.2411
Hypnaceae	582.3451	588.21511
Hypnobryales	582.3451	**588.2151**
Hypnodendraceae	582.3448	588.21413
Hypochnaceae	582.28722	589.2213
Hypochytriaceae	582.28125	589.285
Hypocreaceae	582.28219	589.2354
Hypodermataceae	582.28215	589.2333
Hypogynous monocotyledoneae	**582.52–.56**	**584.3–.9**
Hypopterygiaceae	582.34495	588.21521
Hypoxidoideae	582.5724	584.25
Hyssop Hypericaceae	582.824	583.162
Labiatae	582.9492	583.891
Hysteriineae	582.28215	589.2333
Icacinineae	582.771	583.289
Ilicineae	582.7664	583.2781
Illecebraceae	582.669	583.912
Indian bredroot	582.739	583.322
cress	582.7513	583.225
fig cactus	582.85	583.471
Moraceae	582.635	583.9622
hemp apocynum	582.937	583.721
cannabis	582.635	583.9623
pipe	582.9123	583.63
pitcherplant	582.692	583.9221
plum	582.8354	583.138
turnip Araceae	582.5471	584.65
Papilionatae	582.739	583.322
Indigo	582.739	583.322
Inferae	**582.97–.99**	**583.51–.591**
Inulaceae	582.998	583.5542
Inversicatenales	582.394	587.38
Iridineae	**582.579**	584.24
Iridales	**582.57–.58**	**584.2**
Iris	582.5792	584.24
Ironweed	582.998	583.5545
Ironwood Betulaceae	582.6321	583.978
see also specific names		
Isobryales	582.3449	**588.2153**
Isochrysidaceae	582.2514	589.974554
Isoetales	582.392	587.1
Isokontae	**582.263**	**589.47**
Iteaceae	582.717	583.381
Ivy	582.892	583.491
Ixonanthoideae	582.7514	583.211
Jacaranda	582.9518	583.84
Jack-in-a-box	582.678	583.9312
Jack-in-the-pulpit	582.5471	584.65
Jacob's ladder	582.943	583.7611
Jamrosade	582.883	583.42
Jasmin Loganiaceae	582.935	583.74
Oleaceae	582.931	583.71
Jasminoideae	582.931	583.71
Jelly fungi	582.28712	589.2232
Jerusalem artichoke	582.998	583.5547
Jessamin see Jasmin		
Jewel weed	582.776	583.226
Jew's ear fungi	582.28711	589.2231
Jimson weed	582.9514	583.79
Joe-pye weed	582.998	583.5544
Joint firs	582.49	**585.1**
Jubuloideae	582.333	588.311
Judas tree	582.672	583.323
Juglandales	582.628	**583.973**
Julianiales	582.631	583.9732
Juncaceae	582.571	584.45

	CD	DC
Juncaginaceae	582.535	584.744
Juncagineae	582.535	584.744
Juncineae	582.571	584.45
Juneberry	582.734	583.37
Jungermanniales	582.333	**588.31**
Juniperoideae	582.47	585.216
Junipers	582.47	585.216
Kelps	582.2721	589.457
Kentucky coffee tree	582.738	583.323
Kielmeyeroideae	582.824	583.163
Knackaway	582.9482	583.77
Knapweed	582.998	583.5533
Knawel	582.669	583.1545
Knorripterideae	582.394	587.38
Knotweed	582.657	583.917
Knotwort	582.669	583.912
Koeberlinioideae	582.6831	583.131
Krameriaceae	582.738	583.323
Labiatae	582.9492	583.891
Labiatiflorae	582.998	**583.553**
Laboulbeniales	582.2823	589.232
Labrador tea	582.9124	583.62
Lacistemineae	582.841	583.983
Lactoridaceae	582.677	583.1145
Lactucaceae	582.998	583.552
Lacy ferns	582.39473	587.3129
Ladies' tresses	582.594	584.15
Lady's slipper	582.594	584.15
Lagenidiaceae	582.28113	589.262
Lamiaceae	582.9492	583.891
Lamiales	**582.949**	**583.87**
Laminariales	582.27246	589.454
Land ferns	**582.39472**	**587.312**
Larch	582.47	585.213
Lardizabalaceae	582.6752	583.1172
Larkspur	582.6751	583.111
Lasioideae	582.5471	584.65
Lattice plant	582.534	584.743
Lattice-leaf	582.534	584.743
Lauraceae	582.678	583.931
Laurel	582.678	583.931
American	582.9124	583.62
Laurineae	582.678	583.931
Lavanduloideae	582.9492	583.891
Lavender	582.9492	583.891
sea	582.919	583.671
Leadwort	582.919	583.671
Leather-leaf	582.9124	583.62
Leatherwood Cyrillaceae	582.7661	583.273
Thymelaeaceae	582.865	583.9331
Leathery fungi	582.28723	589.222
Lecanactidaceae	582.2933	589.171
Lecanoraceae	582.2933	589.171
Lecideaceae	582.2933	589.171
Lecythidaceae	582.877	583.423
Leek	582.5722	584.32
Leeoideae	582.783	583.2792
Leguminos	**582.736**	**583.32**
Leitnerialesae	582.627	583.972
Lemaneaceae	582.27512	589.416
Lembophyllaceae	582.3449	588.21531
Lemnaceae	582.5472	584.68
Lemnoideae	582.5472	584.68
Lennoaceae	582.947	583.66
Lentibulariaceae	582.9534	583.825
Lepidocaryoideae	582.545	584.5
Lepidodendraceae	582.3824	587.9115
Lepidodendrales	**582.3823**	**587.911**

	CD	DC
Lepidodendreae	**582.3823**	**587.911**
Lepidodendrineae	**582.382**	**587.91**
Lepidophyta	**582.38**	**587.9**
Lepidophytineae	**582.3823**	**587.911**
Leptomitaceae	582.28112	589.26
Leptospermoideae	582.883	583.42
Leptosporangiatae	**582.3947**	**587.31**
Leptostomaceae	582.3448	588.21415
Leptostromataceae	582.2882	589.242
Leptothecoideae	582.333	588.312
Lepyrodontaceae	582.3449	588.21532
Leskeacea	582.3451	588.21512
Lettuce	582.998	583.552
Leucobryaceae	582.3442	588.21471
Leucodontaceae	582.3449	588.21532
Leucomiaceae	582.34495	588.21521
Leucophanaceae	582.3442	588.21471
Liceales	582.2452	589.2932
Lichens	**582.29**	**589.1**
closed	582.292	589.16
covered fruit	582.292	589.16
naked fruit	**582.293**	**589.17**
Lichinaceae	582.2933	589.171
Licorice	582.739	583.322
Lignum vitae	582.7517	583.221
Ligulate lycopodiales	**582.382**	**587.91**
Liguliflorae	582.998	583.552
Lilac	582.931	583.71
Liliaceae	582.5722	584.32
Liliales	**582.57**	**584.23**
Liliiflorae	**582.57**	**584.23**
Liliineae	**582.572**	**584.23**
Lilioideae	582.5722	584.32
Lily	582.5722	584.32
Lily-of-the-valley	582.5722	584.322
Limes Rutaceae	582.7519	583.23
Tiliaceae	582.795	583.19
Limnanthineae	582.764	583.294
Linaceae	582.7514	583.211
Linden	582.795	583.19
Linoideae	582.7514	583.211
Liquidambaroideae	582.725	583.394
Liriodendron	582.6771	583.114
Lissocarpaceae	582.929	583.6864
Listerellaceae	582.2452	589.2932
Live-forever	582.715	583.39
Liverworts	**582.33**	**588.3**
Lizard's-tail	582.622	583.9252
Loasaceae	582.844	583.453
Lobelioideae	582.992	583.591
Locust	582.739	583.322
Loganiaceae	582.935	583.74
Loosestrife	582.872	583.441
Lophiostomataceae	582.28219	589.2351
Lophophytoideae	582.653	583.947
Lopseed	582.957	583.873
Loranthineae	582.651	583.941
Lotus Nymphaeaceae	582.6711	583.118
Lowioideae	582.58	584.214
Loxsomaceae	582.39473	587.3129
Lupin	582.739	583.322
Luzuriagoideae	582.5722	584.32
Lycogalaceae	582.2446	589.2932
Lycoperdineae	582.28726	589.2217
Lycopodiaceae	582.381	587.922
Lycopodiales	**582.38**	**587.9**
Lycopodiinae	**582.38**	**587.9**
Lycopodineae	582.381	**587.92**

	CD	DC
Lyginodendraceae	582.43	585.967
Lyginopterideae	582.43	585.967
Lyngbyaceae	582.232	589.83
Lythraceae	582.872	583.441
Lythrarieae	582.872	583.441
Madder	582.972	583.52
Maesoideae	582.9182	583.677
Magnolia	582.6771	583.114
Magnoliineae	**582.677**	583.114
Mahogany	582.7523	583.251
Maidenhair ferns	582.39474	587.3127
trees	582.46	585.7
Maize grasses	582.5421	584.922
Malaceae	582.734	583.37
Malacospermae	582.85	583.471
Malesherbiaceae	582.8426	583.457
Malla tree	582.6412	583.26
Mallomonadaceae	582.2514	589.974555
Mallow	582.796	583.172
Malpighiaceae	582.7541	583.214
Malpighiineae	**582.754**	583.214
Malvaceae	582.796	583.172
Malvales	**582.79**	**583.17**
Malvineae	**582.793**	**583.171**
Manchineel	582.757	583.951
Mango	582.765	583.292
Mangosteen	582.824	583.163
Mangrove	582.878	583.411
black	582.9491	583.881
Maple	582.7722	583.284
Marantaceae	582.58	584.211
Marattiales	582.3946	587.332
Maregraviaceae	582.821	583.1666
Marchantiales	582.331	588.33
Mare's tail	582.888	583.446
Margaritales	582.2456	589.2932
Margosa	582.7523	583.251
Marigold Compositae	582.998	583.5535
Ranunculaceae	582.6751	583.111
Marjoram	582.9492	583.891
Marlberry	582.9182	583.677
Marsh elder	582.998	583.5546
rosemary		
Ericaceae	582.9124	583.62
Plumbaginaceae	582.919	583.671
Marsiliaceae	582.39475	587.3112
Martyniaceae	582.9524	583.852
Massariaceae	582.28219	589.2351
Mastixioideae	582.894	583.497
Mastodiaceae	582.292	589.16
Matoniaceae	582.39472	587.3125
May apple Ericaceae	582.9124	583.62
Passifloraceae	582.8427	583.456
podophyllum	582.6753	583.117
Mayacaceae	582.556	584.37
Maydeae	582.5421	584.922
Meadow beauty	582.884	583.43
rue	582.6751	583.111
rushes	582.571	584.45
sweet	582.734	583.37
Medullosaceae	582.43	585.966
Medusagynaceae	582.816	583.1663
Meeseaceae	582.3448	588.21412
Megalopterides	582.43	585.971
Megaloxylaceae	582.43	585.955
Melampsoraceae	582.2852	589.225
Melanconiales	582.2883	589.243
Melanconidaceae	**582.28219**	**589.2351**

	CD	DC
Melanthaceae	582.5722	584.321
Melanthioideae	582.5722	584.321
Melastomaceae	582.884	583.43
Melastomatoideae	582.884	583.43
Meliaceae	582.7523	583.251
Melianthaceae	582.774	583.2871
Melianthineae	582.774	**583.287**
Melioideae	582.7523	583.251
Melogrammataceae	582.28219	589.2351
Melosiraceae	582.2611	589.6224
Memecyloideae	582.884	583.43
Mendoncioideae	582.955	583.86
Menispermaceae	582.6754	583.116
Menthaceae	582.9492	583.891
Menyanthoideae	582.936	583.751
Meridionaceae	582.2615	589.6236
Mesocarpaceae	582.2623	589.612
Mesogloeaceae	582.2721	589.457
Mesotaeniaceae	582.2622	589.614
Metachlamydeae	**582.9**	**583.5**
Meteoriaceae	582.3449	588.21532
Metzgerioideae	582.333	588.312
Mezereon	582.865	583.9331
Micrembryeae	582.622	**583.925**
Microbes	582.231	**589.95**
Microspermae	**582.59**	**584.1**
Microsporaceae	582.265	589.47433
Microthamniaceae	582.265	589.47428
Microthyriaceae	582.28211	589.2355
Mielichhoferioideae	582.3448	588.21415
Mignonet	582.684	583.133
Mildews	582.28211	589.2355
downy	582.28114	589.252
Milfoil	582.998	583.5537
water	582.887	583.417
Milkweed	582.938	583.73
Milkwort	582.7552	583.143
Millet	582.5421	584.926
Mimosa	582.737	583.321
Mimosoideae	582.737	583.321
Mints	582.9492	583.891
Mischococcales	582.259	589.4853
Mistletoe	582.651	583.941
Mitella	582.717	583.381
Miterwort Loganiaceae	582.935	583.74
Saxifragaceae	582.717	583.381
Mitteniaceae	582.3448	588.21414
Mniaceae	582.3448	588.21415
Moccasin flower	582.594	584.15
Mock orange Cucurbitaceae	582.98	583.461
Hydrangeaceae	582.717	583.381
prunus	582.734	583.37
Sapotaceae	582.922	583.6811
styrax	582.928	583.6861
Mold fungi Hyphomycetes	582.2884	589.2411
Mucorales	582.28121	589.281
Moldlike saprophytes	**582.2812**	**589.28**
Molds, water	582.28112	589.26
Mollisiaceae	582.28216	589.2332
Molluginaceae	582.6648	583.476
Monadaceae	582.2513	589.9746
Monandrae	582.594	584.15
Moniliales	582.2884	589.2411
Monimiaceae	582.6779	583.1147
Monkeypot tree	582.877	583.423
Monoblepharidineae	582.28111	589.263
Monochlamydeae	**582.62–.66**	**583.9**
Monociliaceae	**582.259**	**589.483**

	CD	DC
Monocotyledoneae	**582.52**	584
Monopetalae	**582.9**	**583.5**
Monotoideae	582.825	583.167
Monotropoideae	582.9123	583.63
Monsteroideae	582.5471	584.65
Montioideae	582.666	583.1561
Moonseed	582.6754	583.116
Moorwort	582.9124	583.62
Moraceae	582.635	583.9622
Moringaceae	582.685	583.1222
Moriolaceae	582.292	589.16
Morning-glory	582.942	583.78
Moroideae	582.635	583.9622
Moronoboideae	582.824	583.163
Mortierellaceae	582.28121	589.281
Moschatel	582.974	583.513
Mosses	**582.34**	**588.2**
long bromelia	582.564	584.22
small	582.342	588.22
true	582.343	**588.21**
see also special names		
Mossworts	582.32	588
Mougeotiaceae	582.2623	589.612
Mountain ash Myrtaceae	582.883	583.42
Oleaceae	582.931	583.71
Pomaceae	582.734	583.37
Mucedinaceae	582.2884	589.2411
Mucorales	582.28121	**589.28**
Mulberry	582.635	583.9622
Mullen	582.9516	583.81
Multiovulatae aquaticae	582.637	583.92
terrestres	**582.65**	**583.922**
Musales	582.58	584.21
Musci	**582.34**	**588.2**
Muscineae	**582.32**	**588**
Mushrooms	582.28723	589.222
Musoideae	582.58	584.214
Mustard	582.6832	583.123
Mutisiaceae	582.998	583.5532
Mycelic fungi imperfecti	582.2885	589.244
Mycetozoa	**582.24**	**589.29**
Mycobacteriaceae	582.231	589.953
Mycology	**582.28**	**589.2**
Mycoporaceae	582.292	589.16
Mycosphaerellaceae	582.28219	589.2351
Myoporaceae	582.956	583.871
Myriangiaceae	582.28212	589.238
Myricales	582.625	583.974
Myrionemataceae	582.2721	589.457
Myriotrichiaceae	582.2721	589.457
Myristicaceae	582.6777	583.1146
Myrobalan	582.882	583.414
Myrothamnaceae	582.723	583.3942
Myrrh	582.7522	583.247
Myrsinaceae	582.9182	583.677
Myrtaceae	582.883	583.42
Myrtales	**582.86**	**583.4**
Myrtiflorae	**582.86**	583.4
Myrtineae	**582.871**	583.41
Myrtle	582.883	583.42
Myrtoideae	582.883	583.42
Myrstropetaloideae	582.653	583.947
Myuriaceae	582.3449	588.21532
Myurococcaceae	582.2644	589.47532
Myxobacteriaceae	582.231	589.953
Myxogasteres	**582.244**	**589.293**
Myxomycetes	**582.24**	**589.29**
Myxophyceae	582.232	589.8

	CD	DC
Myxophyta	**582.24**	**589.29**
Myxothallophyta	**582.24**	**589.29**
Myzodendraceae	582.642	583.944
Naiadaceae	582.533	584.741
Naiadales	**582.53**	**584.72**
Najadaceae	582.533	584.741
Najadales	**582.53**	**584.72**
Nakedwood Myrtaceae	582.883	583.42
Rhamnaceae	582.782	583.2791
Napoleonoideae	582.877	583.423
Narcissi	582.5724	584.25
Nasturtiums	582.7513	583.225
Naviculaceae	582.2615	589.6234
Naviculales	582.2615	**589.623**
Neckeraceae	582.3449	588.21531
Nectrioideaceae	582.2882	589.242
Nelsonioideae	582.955	583.86
Nelumbaceae	582.6711	583.118
Nelumbonoideae	582.6711	503.118
Nemalionales	582.27512	589.416
Nemastomaceae	582.2753	589.415
Nemataceae	582.34494	588.21522
Nematocaceae	582.34494	588.21522
Nepenthaceae	582.692	583.9221
Nephroselmidaceae	582.2515	589.97444
Nettles	582.635	583.9621
Neuradoideae	582.734	583.37
Neuropterides	582.43	585.974
Nidulariineae	582.28727	589.2218
Nightshade	582.9514	583.79
Nilssoniaceae	582.45	585.922
Nipoideae	582.545	584.5
Nipplewort	582.998	583.552
Nitellaceae	582.271	588.42
Nitrarioideae	582.7517	583.221
Nitrobacteriaceae	582.231	589.953
Nitzschiaceae	582.2615	589.6233
Noctilucaceae	582.2545	589.973234
Nolanaceae	582.9512	583.792
Nostocaceae	582.232	589.83
Notheiaceae	582.2727	589.452
Nudiflorae	**582.546–.547**	584.6
Nutmeg	582.6777	583.1146
Nux vomica	582.935	583.74
Nyctaginaceae	582.6641	583.9153
Nymphaeineae	**582.675**	583.118
Nyssaceae	582.879	583.415
Oak	582.6322	583.977
Oats	582.5421	584.934
Ochnaceae	582.817	583.245
Ochromonadaceae	582.2514	589.974553
Ocimoideae	582.9492	583.891
Octoknemataceae	582.6414	583.9461
Odontopt rides	582.43	585.975
Oedipodiaceae	582.3445	588.21441
Oedogoniaceae	582.265	589.47422
Oenotheraceae	582.886	583.445
Oicomonadaceae	582.2513	589.9746
Okra	**582.796**	583.172
Oktoknemaceae	582.6414	583.9461
Olacaceae	582.6412	583.26
Oleaceae	582.931	583.71
Oleales	582.931	583.71
Olearia	582.998	583.5543
Oleaster	582.866	583.935
Olcineae	582.931	583.71
Oleoideae	582.931	583.71
Oliniaceae	582.864	583.937

	CD	DC
Olive	582.931	583.71
green algae	**582.263**	**589.47**
wild Olacaceae	582.6412	583.26
Olpidiaceae	582.28125	589.285
Onagraceae	582.886	583.445
Onagrarieae	582.886	583.445
Onion	582.5722	584.32
Onygenaceae	582.28212	589.238
Oochytriaceae	582.28125	589.285
Oocystaceae	582.2644	589.47522
Oomycetes	**582.2811**	**589.251**
Oosporeae algae	**582.26–.27**	**589.5**
fungi	**582.288**	**589.24**
Ophiocytiaceae	582.259	589.484
Ophioglossales	582.3944	587.331
Ophiopogonoideae	582.5722	584.32
Opiliaceae	582.6413	583.945
Opuntiales	582.85	583.471
Orchidaceae	582.594	584.15
Orchidales	**582.59**	**584.12**
Orchids	582.594	584.15
Orchis	582.594	584.15
Orobanchaceae	582.9526	583.821
Orpin	582.715	583.39
Orthodontioideae	582.3448	588.21415
Orthotrichaceae	582.3449	588.21535
Oryzeae	582.5421	584.927
Osage orange	582.635	583.9622
Oscillariaceae	582.232	589.83
Oscillatoriaceae	582.232	589.83
Osier	582.623	583.981
Osmundaceae	582.39472	587.3121
Ostropaceae	582.28215	589.2333
Ouabe	582.757	583.951
Oxalidaceae	582.7511	583.224
Oxalis	582.7511	583.224
Ox-eye daisy	582.998	583.5537
Paepalanthoideae	582.558	584.811
Paletuvieraceae	582.878	583.411
Palmae	582.545	584.5
Palmellaceae	582.2644	589.47532
Palmetto	582.545	584.5
Palms	582.545	584.5
Pandales	582.74	583.985
Pandanales	**582.522**	**584.61**
Pandorina	582.2641	589.47534
Panic grasses	582.5421	584.926
Paniceae	582.5421	584.926
Pannariaceae	582.2933	589.171
Pantostomatales	582.2511	589.9748
Papaveraceae	582.682	583.1221
Papaverales	**582.68**	**583.122**
Papaw Anonaceae	582.6775	583.115
Caricaceae	582.843	583.462
Papaya	582.843	583.462
Papayineae	582.843	583.462
Papilionatae	582.739	583.322
Paprika	582.9514	583.79
Paradise tree	582.7521	583.241
Parasitic fungi	**582.282**	**589.23**
Paratheliaceae	582.292	589.16
Parietales	**582.81**	**583.12**
Parkeriaceae	582.39474	587.3126
Parmeliaceae	582.2933	589.171
Parnassiaceae	582.717	583.381
Paronychioideae	582.669	583.1544
Paropsidaceae	582.28211	589.2355
Parsley	582.893	583.481

	CD	DC
Parsnip	582.893	583.481
Partridge berry Ericaceae	582.9124	583.62
Rubiaceae	582.972	583.52
Passifloraceae	582.8427	583.456
Passiflorales	**582.842**	**583.45**
Passion flower	582.8427	583.456
Patellariaceae	582.28216	589.2332
Patmawort	582.651	583.923
Peach	582.734	583.37
leaf curl	582.28221	589.237
Peanut	582.739	583.322
Pear	582.734	583.37
hard	582.864	583.937
Peas	582.739	583.322
Peat mosses	582.341	588.1
Pecan	582.628	583.9731
Pecopterides	582.43	585.978
Pedaliaceae	582.9522	583.85
Pedalium	582.9522	583.85
Peganoideae	582.7517	583.221
Peltigeraceae	582.2933	589.171
Penaeaceae	582.863	583.934
Penieae	582.2622	589.613
Pennales	582.2615	589.623
Pennatae	582.2615	589.623
Pennyroyal	582.9492	583.891
Pentaciclic Sympetalae	**582.91–.92**	**583.6–.6864**
Pentaphylacaceae	582.7662	583.278
Penthoroideae	582.717	583.39
Peponiferae	582.98	583.46
Peppergrass	582.6832	583.123
Pepperidge	582.894	583.497
Peppermint	582.9492	583.891
Peppers	582.622	583.9251
Pepperworts Cruciferae	582.6832	583.123
ferns	582.39475	587.3112
Peranemataceae	582.2517	589.9742
Peridinales	**582.252**	**589.973**
Peridiniales	582.2549	589.97322
Periplocoideae	582.938	583.73
Perisporiineae	582.28211	589.2355
Peronosporales	582.28114	589.252
Perseoideae	582.678	583.931
Persimmon	582.925	583.6851
Personales	**582.951**	**583.8**
Persoonioideae	582.639	583.932
Pertusariaceae	582.2933	589.171
Petticoat mosses	582.3445	588.21441
Peyritschiellaceae	582.2823	589.232
Pezizineae	582.28216	589.2332
Phacidiineae	582.28213	589.2335
Phacotaceae	582.2641	589.47534
Phaeocapsales	582.2515	589.97443
Phaeophyceae	**582.272**	**589.45**
Phaeosporeae	582.2746	589.453
Phaeothamnionaceae	582.2514	589.97453
Phaeozoosporineae	582.2726	589.453
Phalansteriaceae	582.2513	589.9746
Phalarideae	582.5421	584.932
Phallineae	582.28728	589.2215
Phanerogamia	**582.4**	**582**
Pherosphaeroideae	582.47	585.223
Philodendroideae	582.5471	584.65
Philydrineae	582.569	584.35
Phlox	582.943	583.7611
Phoenicales	582.545	584.5
Phrymaceae	582.957	583.873
Phycobacteriaceae	582.231	589.953

	CD	DC
Phycochromaceae	582.232	589.8
Phycolichenes	582.290	589.482
Phycomycetes	**582.281**	**589.25**
Phyllanthoideae	582.757	583.951
Phyllocladoideae	582.47	585.224
Phyllogoniaceae	582.3449	588.21531
Phyllophoraceae	582.2753	589.414
Phyllopsoraceae	582.2933	589.171
Phyllopyreniaceae	582.292	589.16
Phyllosiphonaceae	582.267	589.4724
Physarales	582.2455	589.2932
Physiaceae	582.2933	589.171
Phytelephantoideae	582.545	584.5
Phytoflagellatae	**582.251**	**589.974**
Phytolaccineae	**582.664**	**583.915**
Phytomyxinae	582.28125	589.285
Phytosarcodina	**582.24**	**589.29**
Pickerel weed	582.567	584.34
Picramnioideae	582.7521	583.241
Pignut Apiaceae	582.893	583.481
Araliaceae	582.892	583.491
Juglandaceae	582.628	583.9731
Tricoccae	582.757	583.951
Pigweed amaranthus	582.663	583.9131
chenopodium	582.662	583.914
Pilacraceae	582.28711	589.2231
Pilocarpaceae	582.2933	589.171
Pilotrichaceae	582.34495	588.21521
Pimento	582.883	583.42
Pimpernel Primulaceae	582.9183	583.672
Umbelliferae	582.893	583.481
Pinaceae	582.47	585.213
Pinales	582.47	585.2
Pineapple	582.564	584.22
Pines	582.47	585.213
ground	582.381	587.922
old	582.47	585.212
Pinguiculaceae	582.9534	583.825
Pinks	582.669	583.153
Pinkster	582.9124	583.62
Pinxter	582.9124	583.62
Piperales	582.622	583.925
Pipewort	582.558	584.811
Pipsissewa	582.9123	583.631
Piptocephalidaceae	582.28121	589.281
Pistioideae	582.5471	584.65
Pitcherplants	582.691	583.121
Australian	582.716	583.391
East Indian	582.692	583.9221
Pittosporaceae	582.718	583.141
Pityaceae	582.465	585.52
Placoderm desmids	582.2622	589.613
Plagiotheciaceae	582.3451	588.21511
Plakopodaceae	582.242	589.29
Planchonioideae	582.877	583.423
Plane tree	582.732	583.971
Planer tree	582.635	583.9625
Plantaginales	582.96	583.899
Plantains	582.96	583.899
mud	582.567	584.34
water	582.536	584.721
Plasmodiophorales	582.28125	589.285
Platanaceae	582.732	583.971
Plectascineae	582.28212	589.238
Plectobasidiineae	582.28724	589.2219
Pleonandrae	582.594	584.15
Pleosporaceae	582.28219	589.2351
Pleurocapsaceae	582.232	589.84

	CD	DC
Pleurocarpi	**582.3449**	**588.215**
Pleurococcaceae	582.2644	589.47523
Pleuromeiaceae	582.3829	587.9111
Pleurophascaceae	582.3442	588.21472
Pleuroziioideae	582.333	588.311
Plocamiaceae	582.2753	589.414
Plum pocket	582.28221	589.237
Plumbaginaceae	582.919	583.671
Plumbago	582.919	583.671
Plumieroideae	582.937	583.721
Plums	582.734	583.37
Poaceae	582.5421	584.9
Poales	**582.542**	**584.84**
Pocket fungi	582.28221	589.237
Podaxaceae	582.28724	589.2219
Podocarpaceae	582.47	585.223
Podophylloideae	582.6753	583.117
Podostemonales	582.637	583.92
Poison-wood Anacardiaceae	582.765	583.292
Euphorbiaceae	582.757	583.951
Pokeberry	582.6643	583.915
Pokeweed	582.6643	583.915
Polanisia	582.6831	583.131
Polemoniaceae	582.943	583.7611
Polemoniales	**582.94**	**583.761**
Polemonioideae	582.943	583.7611
Polemonium	582.943	583.7611
Polyblepharideceae	582.2641	589.47534
Polycarpeae	582.669	583.1541
Polycarpellatae		
axifloro-apopetalous	**582.67–.75**	**583.11–.255**
gamopetalous	**582.91–.92**	**583.6–.6864**
Polycarpicae	**582.67**	**583.11**
Polygalaceae	582.7552	583.143
Polygalales	**582.755**	**583.14**
Polygalineae	**582.755**	**583.14**
Polygonales	582.657	583.917
Polygonoideae	582.657	583.917
Polykrikaceae	582.2544	589.973235
Polypetalae	**582.62–.69**	**583.1**
Polypodiaceae	582.39474	587.3127
Polyporaceae	582.28723	589.222
Polytrichales	582.3471	588.2111
Polytrichinales	**582.347**	**588.211**
Pomaceae	582.734	583.37
Pomegranate	582.876	583.412
Pomoideae	582.734	583.37
Pond scum	582.2623	589.612
Pondweed	582.532	584.742
Pontederiaceae	582.567	584.34
Pontederiales	**582.566**	**584.33**
Pontederiineae	**582.566**	**584.33**
Poplar	582.623	583.981
Poppy	582.682	583.1221
water	582.5372	584.73
Porantheroideae	582.757	583.951
Portulacineae	**582.665**	**583.156**
Potamogetonineae	**582.531**	**584.74**
Potato	582.9514	583.79
blight	582.28114	589.252
Pothoideae	582.5471	584.65
Pottiaceae	582.3443	588.21461
Pottiales	582.3443	588.2146
Pouchetiaceae	582.2546	589.973233
Powdery fungi	582.28214	589.2334
lichens	582.2931	589.173
mildews	582.28211	589.2355
Prasioideae	582.9492	583.891

	CD	DC
Prasiolaceae	582.265	589.47432
Prickly fungi	582.28723	589.222
pear	582.85	583.471
Primrose	582.9183	583.672
evening	582.886	583.445
Primulaceae	582.9183	583.672
Primulales	**582.918**	**583.67**
Principes	582.545	584.5
Prionodontaceae	582.3449	588.21532
Privet	582.931	583.71
Prorocentraceae	582.2532	589.97332
Prostantheroideae	582.9492	583.891
Proteales	582.639	583.932
Protista	**582.23**	**589.7**
Protoarticulatales	582.370	587.2122
Protoascineae	582.28222	589.2362
Protobasidiomycetes	**582.2871**	**589.223**
Protocalamaricaceae	582.3745	587.2122
Protocaliciineae	582.28214	589.2334
Protococcaceae	582.2644	589.47523
Protococcales	**582.264**	**589.475**
Protodiniferaceae	582.2542	589.973237
Protodiscineae	582.28221	589.237
Protogastrineae	**582.287247–248**	
		589.221
Protomastigales	582.2513	589.9746
Protomycetes	582.283	589.229
Protophyta	**582.23**	**589.7**
Protopityaceae	582.43	585.972
Protosiphonaceae	582.2644	589.47523
Prototaxitaceae	582.27246	589.454
Protothecaceae	582.2644	589.47522
Prunaceae	582.734	583.37
Prunoideae	582.734	583.37
Psaronieae	582.3946	587.38
Pseudoborniales	582.373	587.22
Pseudoraphideae	582.2615	589.623
Pseudosolanoideae	582.9516	583.81
Pseudosporochnaceae	582.352	587.45
Psilophytales	582.352	587.45
Psilotales	582.391	587.4
Psoraleae	582.739	583.322
Pterantheae	582.669	583.1546
Pteridophyta	**582.35**	**587**
Pteridospermae	582.43	585.95
Pterobryaceae	582.3449	588.21532
Pterostemonoideae	582.717	583.381
Ptilidioideae	582.333	588.311
Ptychomitriaceae	582.3449	588.21535
Ptychomniaceae	582.3449	588.21532
Pucciniaceae	582.2852	589.225
Puffballs	582.28726	589.2217
hard	582.28724	589.2219
Pulse	**582.736**	**583.32**
Punctariaceae	582.2721	589.457
Punicaceae	582.876	583.412
Purslane	582.666	583.1561
sea	582.6648	583.475
Pyrenidiaceae	582.292	589.16
Pyrenocarpeae	582.292	589.16
Pyrenolichenes	582.292	589.16
Pyrenomycetineae	582.28219	589.235
Pyrenopsidaceae	582.2933	589.171
Pyrenothamniaceae	582.292	589.16
Pyrenotrichaceae	582.292	589.16
Pyrenulaceae	582.292	589.16
Pyrolaceae	582.9123	583.631
Pyroloideae	582.9123	583.631

	CD	DC
Pyronemataceae	582.28216	589.2332
Pythiaceae	582.28114	589.252
Pyxie	582.911	583.65
Quercineae	582.6322	583.977
Quiinaceae	582.822	583.165
Quillworts	582.392	587.1
Radish	582.6832	583.123
Rafflesiaceae	582.651	583.923
Ragweed	582.998	583.5546
Ralfsiaceae	582.2721	589.457
Ramie	582.635	583.9621
Ranales	**582.67**	**583.11**
Ranunculales	**582.67**	**583.11**
Ranunculineae	**582.675**	**583.111**
Rapateaceae	582.563	584.39
Rape	582.6832	583.123
Raphideae	582.2615	589.623
Raspberry	582.734	583.37
Red algae	**582.273**	**589.41**
cedar	582.47	585.216
ironwood	582.817	583.245
seaweeds	**582.275**	**589.411**
hard	582.2752	589.415
higher	582.2754	589.413
lower	582.2751	589.416
soft	582.2753	589.414
Redtop grasses	582.5421	584.933
Redwood	582.47	585.211
Reeds	582.5421	584.936
Resedaceae	582.684	583.133
Restiaceae	582.554	584.83
Restionaceae	582.554	584.83
Reticulariaceae	582.2446	589.2932
Rhacopilaceae	582.3449	588.21534
Rhamnales	**582.78**	**583.279**
Rhea	582.635	583.9621
Rhegmatodontaceae	582.3451	588.21512
Rhetinangiaceae	582.43	585.957
Rhinanthoideae	582.9516	583.81
Rhizidiaceae	582.28125	589.285
Rhizinaceae	582.28217	589.2331
Rhizobolaceae	582.819	583.1665
Rhizochrysidales	582.2514	589.97452
Rhizoctonia	582.2884	589.2411
Rhizoflagellatae	582.2511	589.9748
Rhizogoniaceae	582.3448	588.21414
Rhizomastigaceae	582.2511	589.9748
Rhizomopterideae	582.394	587.38
Rhizophoraceae	582.878	583.411
Rhizophyllidaceae	582.2752	589.415
Rhizosoleniaceae	582.2611	589.6223
Rhodobacteriaceae	582.231	589.952
Rhodochaetaceae	582.274	589.42
Rhodochytriaceae	582.2644	589.47523
Rhododendron	582.9124	583.62
Rhodoleioideae	582.725	583.394
Rhodomelaceae	582.2755	589.412
Rhodophyceae	**582.273**	**589.41**
Rhodophyllidaceae	582.2753	589.414
Rhodymeniales	582.2754	589.413
Rhoeadales	**582.68**	**583.122**
Rhoeadineae	**582.681**	**583.1221**
Rhoipteleaceae	582.635	583.962
Rhynchoflagellata	582.255	589.9735
Rhyniaceae	582.352	587.45
Rhytidiaceae	582.3451	588.21511
Ribesioideae	582.717	583.381
Ricciaceae	582.331	588.331

	CD	DC
Rice grasses	582.5421	584.927
paper plant	582.994	583.58
tree	582.892	583.491
Ricinocarpoideae	582.757	583.951
Rielloideae	582.333	588.312
Ripe rot fungi	582.2883	589.243
Riverweed Podostemonaceae	582.637	583.921
potamogeton	582.532	584.742
Rivulariaceae	582.232	589.83
Roccellaceae	582.2932	589.172
Rock rose	582.8352	583.134
Rockweeds	582.2727	589.452
Root rot fungi	582.2883	589.243
Roridulaceae	582.726	583.392
Rosaceae	582.734	583.37
Rosales	**582.71**	**583.3**
Rose	582.734	583.37
of Jericho Brassicaceae	582.6832	583.123
Inulaceae	582.998	583.5542
Rosemary	582.9492	583.891
see also Marsh rosemary		
Rosewood, Australian	582.7523	583.251
bastard	582.7523	583.251
Bignonaceae	582.9518	583.84
Fabaceae	582.739	583.322
juniper	582.47	585.216
Meliaceae	582.7523	583.251
Mimosaceae	582.737	583.321
Myoporaceae	582.956	583.871
Sapindaceae	582.7724	583.282
Rosineae	**582.731**	**583.31**
Rosoideae	582.734	583.37
Rough leaf tree	582.813	583.112
Round diatoms	582.2611	589.622
Roxburghiaceae	582.5721	584.31
Roydsioideae	582.6831	583.131
Rubiaceae	582.972	583.52
Rubiales	**582.97**	**583.51**
Rue	582.7519	583.23
Rushes	582.571	584.45
see also distinctive names		
Rust fungi	582.2852	589.225
white	582.28114	589.252
Rutaceae	582.7519	583.23
Rutenbergiaceae	582.3449	588.21532
Rutilariaceae	582.2611	589.6222
Rutoideae	582.7519	583.23
Sabalaceae	582.545	584.5
Sabiineae	582.773	583.291
Saccharomycetineae		
fungi	582.28223	589.2361
protophyta	582.23	589.91
Saccoderm desmids	582.2622	589.614
Safflower	582.998	583.5533
Sage	582.9492	583.891
rose	582.8425	583.455
Sagebrush	582.998	583.5533
Saint Johnswort	582.824	583.162
Salicales	582.623	583.981
Salicineae	582.623	583.981
Salisburyaceae	582.46	585.7
Salsify	582.998	583.552
Salvadoraceae	582.7667	583.716
Salviniaceae	582.39475	587.3111
Samydaceae	582.844	583.541
San Juan tree	582.7543	583.145

	CD	DC
Sandalwood	582.6416	583.943
bastard	582.956	583.871
Sanicle	582.893	583.481
Saniculoideae	582.893	583.481
Sanpadranno	582.7543	583.145
Santalaceae	582.6416	583.943
Santalales	**582.64**	**583.94**
Santalineae	**582.641**	**583.942**
Sapindaceae	582.7724	583.282
Sapindales	**582.76–.77**	**583.28**
Sapindineae	**582.772**	**583.281**
Sapodilla	582.922	583.6811
Sapotaceae	582.922	583.6811
Sapotineae	**582.921**	**583.681**
Saprolegniales	582.28112	589.26
Saprophytes	**582.28**	**589.2**
Sarcophytoideae	582.653	583.947
Sargassaceae	582.2727	589.452
Sargentadoxaceae	582.6752	583.1174
Sarraceniales	**582.69**	**583.121**
Sarsaparilla smilax	582.5722	584.323
wild aralia	582.892	583.491
Sassafras	582.678	583.931
Satinwood Meliaceae	582.7523	583.251
Monimiaceae	582.6779	583.1147
Rutaceae	582.7519	583.23
Saurauiaceae	582.814	583.1662
Saururaceae	582.622	583.9252
Savory	582.9492	583.891
Saw-wort	582.998	583.5533
Saxifragaceae	582.717	583.381
Saxifragales	**582.714**	**583.38**
Saxifragineae	**582.714**	**583.38**
Saxifragoideae	582.717	583.381
Scabs fungi	582.2884	589.2411
Scale mosses	582.333	588.31
Scapanioideae	582.333	588.311
Scheuchzeriaceae	582.535	584.744
Schistostegales	582.3446	588.2143
Schizaeaceae	582.39472	587.3122
Schizandraceae	582.6771	583.1143
Schizogoniales	582.265	589.47432
Schizolaenaceae	582.792	583.168
Schizomycetes	582.231	589.95
Schizophyceae	582.232	589.8
Schizophyta	**582.23**	**589.7**
Schizosporaceae	582.2852	589.225
Schoepfioideae	582.6412	583.26
Sciadopityoideae	582.47	585.211
Scilloideae	582.5722	584.32
Scirpoideae	582.5424	584.841
Scitamineae	582.58	584.21
Scleranthea	582.669	583.1545
Sclerodermatineae	582.28724	589.2219
Sclerospermae	582.85	583.471
Scouring rushes	582.3742	587.211
Screw pines	582.5222	584.611
Scrophulariales	**582.951**	**583.8**
Scutellarioideae	582.9492	583.891
Scyphostegiaceae	582.635	583.9624
Scytonemaceae	582.232	589.83
Scytonemataceae	582.232	589.83
Scytopetalineae	582.799	583.193
Scytosiphonaceae	582.2721	589.457
Sea ferns	582.267	589.4727
mosses	582.2755	589.412
Seaweeds	**582.26–.27**	**589.3–.6**

	CD	DC
Sedges	**582.5422**	584.841
Seed ferns	582.43	**585.95**
plants	582.4	**582**
covered	582.5	**583–584**
first	**582.42**	**585**
naked	**582.42**	**585**
Seedless plants	**582.2–.3**	**586**
Selaginaceae	582.9516	583.876
Selagineae	582.9516	583.876
Selaginellales	**582.382**	587.912
Selenastraceae	582.2644	589.47522
Seligeraceae	582.3442	588.21473
Sematophyllaceae	582.3451	588.21511
Senecionidaceae	582.998	583.5536
Senna	582.738	583.323
Sensitive plant	582.737	583.321
Sequoia	582.47	585.211
Sesame	582.9522	583.85
Shield fern	582.39474	587.3127
Shinleaf	582.9123	583.631
Side **mosses**	**582.3449**	**583.215**
Side-saddle flower	582.691	583.121
Sigillariaceae	582.3828	587.9112
Silenaceae	582.669	**583.152**
Sileneae	582.669	583.153
Silenoideae	582.669	583.153
Silicoflagellatae	**582.258**	**589.972**
Silk-cotton tree	582.797	583.173
Silkweed	582.938	583.73
Simarubaceae	582.7521	583.241
Siphonales	582.267	**589.472**
Siphoneae	**582.266–.267**	**589.471**
Siphonocladales	582.266	**589.473**
Siphonomycetes	**582.281**	**589.25**
Siphonophyceae	**582.266–.267**	**589.471**
Siphonotestales	582.2581	589.9722
Sirobasidiaceae	582.28712	589.2232
Sirosiphonaceae	582.232	589.83
Skunk cabbage	582.5471	584.65
Skunkweed	582.943	583.7611
Slime algae	582.232	**589.8**
fungi	**582.24**	**589.29**
mold fungi	**582.24**	**589.29**
Slit fungi	582.28215	589.2333
lichens	582.2932	589.172
Smartweed	582.657	583.917
Smilacoideae	582.5722	584.323
Smilax	582.5722	584.323
Smut fungi	582.2851	589.2271
Snakeroot		
black	582.6751	583.111
button Apiaceae	582.893	583.481
Eupatorieae	582.998	583.5544
Canada	582.65	583.924
heart	582.65	583.924
sanicle	582.893	583.481
Senega	582.7552	583.143
Virginia	582.65	583.924
white	582.998	583.5544
Snapdragon	582.9516	583.81
Sneezweed	582.998	583.5538
Snowberry Caprifoliaceae	582.973	583.511
creeping	582.9124	583.611
Ericaceae	582.9124	583.62
Rubiaceae	582.972	583.52

	CD	DC
Snowdrop tree Oleaceae	582.931	583.71
styrax	582.928	583.6861
Soapberry	582.7724	583.282
Soapwort	582.669	583.153
Solanaceae	582.9514	583.79
Solanales	582.9514	583.79
Solanineae	**582.951**	**583.8**
Soleniaceae	582.2611	589.6223
Solenoporaceae	582.2752	589.415
Solomon's seal	582.5722	584.322
Sonneratiaceae	582.874	583.443
Sorapillaceae	582.3448	588.21414
Sordariaceae	582.28219	589.2351
Sorophora	582.241	589.292
Sorrel	582.657	583.917
Souari nut	582.819	583.1665
Sour gum tree Cornaceae	582.894	583.497
Nyssaceae	582.879	583.415
Sow thistle	582.998	583.552
Spadiciflorae	**582.547**	**584.64**
Spanish mosses	582.564	584.22
Sparganiaceae	582.5223	584.612
Spathelioideae	582.7519	583.23
Spathiflorae	**582.547**	**584.64**
Spatterdock	582.6711	583.118
Spearmint	582.9492	583.891
Sperguleae	582.669	583.1543
Spermaphyta	**582.4**	**582**
Spermatochnaceae	582.2721	589.457
Spermatophyta	**582.4**	**582**
Spermophthorales	582.2820	589.23
Sphacelariales	582.2722	589.456
Sphaerellaceae	582.2641	589.47534
Sphaeriaceales	582.28219	589.2351
Sphaerioideaceae	582.2882	589.242
Sphaerobolaceae	582.28724	589.2219
Sphaerocarpoideae	582.333	588.312
Sphaerococcaceae	582.2753	589.413
Sphaerophoraceae	582.2931	589.173
Sphaeropleaceae	582.266	589.4732
Sphaeropsidales	582.2882	589.242
Sphagnales	582.341	588.1
Sphenophyllales	582.371	587.24
Sphenopterides	582.43	585.979
Spiderwort	582.565	584.38
Spike rush	582.5424	584.841
Spindle tree	582.7665	583.272
Spiraeoideae	582.734	583.37
Spiridentaceae	582.3448	588.21412
Spirillaceae	582.231	589.953
Spirogyraceae	582.2623	589.612
Splachnaceae	582.3445	588.21441
Splachnidiaceae	582.2723	589.455
Spleenwort	582.39474	587.3127
Spore plants	**582.2–.3**	**586**
Sporochnaceae	582.2721	589.457
Spot fungi	582.2882	589.242
Spruce	582.47	585.213
Spumariaceae	582.2455	589.2932
Spurge	582.757	583.951
laurel	582.865	583.9331
Squamariaceae	582.2752	589.415
Stachyoideae	582.9492	583.891
Stachyuraceae	582.8424	583.1392
Stackhousiaceae	582.7668	583.274

	CD	DC
Staff tree	582.7665	583.272
Staphyleaceae	582.7669	583.277
Star		
apple	582.922	583.6811
flower	582.844	583.453
of Bethlehem Liliaceae	582.5722	584.32
Primulaceae	582.9183	583.672
Rubiaceae	582.972	583.52
Starworts	582.669	583.1542
water	582.759	583.253
Stegnospermoideae	582.6643	583.915
Steloxylaceae	582.43	585.963
Stemonaceae	582.5721	584.31
Stemonitales	582.2453	589.2932
Stenomyelaceae	582.43	585.953
Stephaninoideae	582.333	588.311
Sterculiaceae	582.798	583.18
Stereotestales	582.2582	589.9723
Stictaceae	582.2933	589.171
Stictidaceae	582.28213	589.2335
Stigonemataceae	582.232	589.83
Stilbaceae	582.2884	589.2411
Stilophoraceae	582.2721	589.457
Stinkhorn fungi	582.28728	589.2215
Stitchworts	582.669	583.1542
Stonecrops	582.715	583.39
Stoneworts	582.271	**588.4**
Stopper Myrtaceae	582.883	583.42
Storax	582.928	583.6861
Storksbill	582.7512	583.223
Strasburgeriaceae	582.818	583.1664
Stratiotoideae	582.539	584.11
Strawberry	582.734	583.37
shrub	582.6773	583.113
Strelitzioideae	582.58	584.214
Striariaceae	582.2721	589.457
Strigulaceae	582.292	589.16
Strobilophyta	582.47	**585.2**
Stylewort	582.996	583.571
Stylidiaceae	582.996	583.571
Styracaceae	582.928	583.6861
Sugar cane	582.5421	584.925
Sumac	582.765	583.292
Sundews	582.693	583.393
Sunflower	582.998	583.5547
false	582.998	583.5538
Supplejack	582.782	583.2791
Supucaia nut	582.877	583.423
Surianoideae	582.7521	583.241
Surirelloideae	582.2615	589.6232
Swamp apple	582.9124	583.62
Sweet gum	582.725	583.394
Sweet-flag Araceae	582.5471	584.65
Sweetgale	582.625	583.974
Sweet-leaf hypericum	582.824	583.162
Symplocaceae	582.927	583.6863
Sweet-william silenoideae	582.669	583.153
see also Wild sweet-william		
Swietenioideae	582.7523	583.251
Sycamore Platanaceae	582.732	583.971
Ulmaceae	582.635	583.9625
Sycamore-fig	582.635	583.9622
Sycamore-maple	582.7722	583.284
Sympetalae	**582.9**	**583.5**
Symphyodontaceae	582.34495	588.21521
Symplocaceae	582.927	583.6863
Synanthae	582.546	584.62
Synchytriaceae	582.28125	589.285

	CD	DC
Syringa Oleaceae	582.931	583.71
saxifrage	582.717	583.381
Syrrhopodontineae	582.3443	588.21463
Systematic botany	**582**	**582–589**
Tabellariaceae	582.2615	589.6236
Taccaceae	582.5726	584.26
Taeniopterides	582.43	585.973
Tamarac	582.47	585.213
Tamaricineae	**582.831**	583.158
Tamarisk	582.8316	583.158
Tansy	582.998	583.5537
Tape gras	582.539	584.11
Taphrinaceae	582.28221	589.237
Targionioideae	582.331	588.332
Tasajo	582.85	583.471
Taxaceae	582.47	585.221
Taxales	582.47	**585.22**
Taxodiaceae	582.47	585.211
Taxonomy	**582**	**582–589**
Tea	582.823	583.166
Teazels	582.977	583.541
Teliosporeae	**582.285**	**589.224**
Terfeziaceae	582.28212	589.238
Terminaliaceae	582.882	583.414
Ternstroemiaceae	582.823	583.166
Tetracyclic		
Sympetalae, inferae	**582.97–.99**	**583.51–.591**
superae	**582.93–.96**	**583.7–.8**
Tetradiclidoideae	582.7517	583.221
Tetramitaceae	582.2513	589.9746
Tetraphidales	582.3447	588.2142
Tetrasporaceae	582.2644	589.47532
Tetrasporineae	582.2724	589.451
Thalamiflorae	**582.67–.69**	**583.11–.193**
Thalassioideae	582.539	584.11
Thallophyta	**582.22**	**589**
Theaceae	582.823	583.166
Theales	**582.812**	**583.16**
Thecatales	582.2532	589.97332
Theineae	**582.812**	**583.16**
Thelephoraceae	582.28723	589.222
Theliaceae	582.3451	588.21512
Theloschistaceae	**582.2933**	589.171
Thelotrematacea	582.2933	589.171
Thelygonaceae	582.888	583.9152
Theophrastaceae	582.9181	583.678
Thiobacteria	582.231	589.952
Thistles	582.998	583.5533
Thoreaceae	582.27512	589.416
Thuidiaceae	582.3451	588.21512
Thuja	582.47	585.215
Thujoideae	582.47	585.215
Thujopsidaceae	582.47	585.215
Thunbergioideae	582.955	583.86
Thurniaceae	582.562	584.391
Thuya	582.47	585.215
Thuyoideae	582.47	585.215
Thuyopsidaceae	582.47	585.215
Thyme	582.9492	583.891
Thymelaeaceae	582.865	583.9331
Thymelaeales	**582.861**	**583.933**
Thymelaeineae	**582.861**	**583.933**
Thymelaeoideae	582.865	583.9331
Tieteaceae	582.394	587.38
Tiliaceae	582.795	583.19
Tilletiaceae	582.2851	589.2272
Tilopteridales	582.2726	589.453

	CD	DC
Timmiaceae	582.3448	588.21411
Toadflax	582.9516	583.81
Toadstools	582.28723	589.222
Tobacco	582.9514	583.79
blight	582.28114	589.252
Toddalioideae	582.7519	583.23
Top mosses	**582.3441–8**	**588.214**
Torchwood	582.7522	583.247
Touch-me-not	582.776	583.226
Tovariaceae	582.6833	583.132
Trachypodaceae	582.3449	588.21532
Trapaceae	582.885	583.413
Tree ferns	582.39473	587.3128
lily	582.5725	584.28
mosses	582.3449	588.21533
of heaven	582.7521	583.241
Tremandraceae	582.7551	583.142
Trembling fungi	582.28712	589.2232
Tremellineae	582.28712	589.2232
Trentepohliaceae	582.265	589.47427
Tribonemaceae	582.259	589.483
Trichiales	582.2458	589.2932
Trichocomaceae	582.28212	589.238
Trichostomaceae	582.3443	588.21461
Tricoccae	582.757	583.951
Trigonantheae	582.333	588.311
Trigoniaceae	582.7542	583.215
Trilliaceae	582.5722	584.322
Trillium	582.5722	584.322
Trimastigaceae	582.2513	589.9746
Tristegineae	582.5421	584.924
Triticeae	582.5421	584.937
Triuridales	582.541	584.71
Trochodendrineae	582.672	583.119
Trochodendron	582.672	583.1191
Tropaeolaceae	582.7513	583.225
Truffles	582.28218	589.231
Trumpet creeper	582.9518	583.84
Tryblidiaceae	582.28213	589.2335
Trypetheliaceae	582.292	589.16
Tube algae	**582.266–.267**	**589.471**
higher	582.267	589.4727
lower	582.267	589.472
fungi	**582.281**	**589.25**
Tubebearing fungi	582.28723	589.222
Tubercularaceae	582.2884	589.2411
Tuberineae	582.28218	589.231
Tubers, false	582.28725	589.2216
little	582.28212	589.238
truffles	582.28218	589.231
Tubiferaceae	582.2446	589.2932
Tubiflorae	**582.94**	**583.76**
Tubuliflorae	589.998	583.553
Tulasnellaceae	582.28723	589.222
Tulip tree	582.6771	583.114
Tulostomataceae	582.28724	589.2219
Tumbleweed Amarantaceae	582.663	583.9131
bugseed	582.662	583.914
psoralea	582.739	583.322
winged pigweed	582.662	583.914
Tumboaceae	582.49	585.12
Tupelo	582.879	583.415
Turf mosses	582.3442	588.21473
Turneraceae	582.8425	583.455
Twin leaf	582.6753	583.117
Tylostomataceae	582.28726	589.2217
Typhaceae	582.5221	584.613
Ulmaceae	582.635	583.9625

	CD	DC
Ulmoideae	582.635	583.9625
Ulodendraceae	582.3825	587.9114
Ulotrichaceae	582.265	589.47434
Ulotrichales	582.265	589.474
Ulvaceae	582.265	589.47435
Umbellales	**582.89**	**583.48**
Umbelliferae	582.893	583.481
Umbelliflorae	**582.89**	**583.48**
Umbrella tree Combretaceae	582.882	583.414
Magnoliaceae	582.6771	583.114
Umiri tree	582.7514	583.213
Underground fungi	582.28725	589.2216
Unicorn plant	582.9524	583.852
Unisexuales	**582.62–.63**	**583.95**
Uredinales	582.2852	589.225
Urticales	582.635	583.962
Urticiflorae	582.635	583.962
Usneaceae	582.2933	589.171
Ustilaginales	582.2851	589.227
Vaccinioideae	582.9124	583.611
Vacuolaria	582.2516	589.9743
Valerianaceae	582.975	583.531
Vallisnerioideae	582.539	584.11
Valoniaceae	582.266	589.4736
Valsaceae	582.28219	589.2351
Vampyrellaceae	582.242	589.29
Vascular cryptograms	**582.35**	**587**
Vaucheriaceae	582.267	589.4722
Vaucherioidcae	582.267	589.472
Vegetable sheep	582.998	583.5542
Velloziaceae	582.5725	584.28
Verbenineae	**582.949**	**583.88**
Vernoniaceae	582.998	583.5545
Verrucariaceae	582.292	589.16
Verticillatae	582.621	583.975
Vervain	582.9491	583.881
Vetches	582.739	583.322
Vine family	582.783	583.2792
Violaceae	582.8422	583.135
Violarieae	582.8422	583.135
Violets	582.8422	583.135
Virginia creeper	582.783	583.2792
Viscoideae	582.651	583.941
Vitaceae	582.783	583.2792
Vitis	582.783	583.2792
Vitoideae	582.783	583.2792
Vochyaceae	582.7543	583.145
Vochysiaceae	582.7543	583.145
Volvocaceae	582.2641	589.47534
Volvocales	582.2641	589.4753
Wahoo Celastraceae	582.7665	583.272
Rhamnaceae	582.782	583.2791
Tiliaceae	582.795	583.19
Ulmaceae	582.635	583.9625
Wake-robin Araceae	582.5471	584.65
trillium	582.5722	584.322
Walking leaf fern	582.79474	587.3127
Walnut	582.628	583.9731
Water chestnut	582.885	583.413
cress	582.6832	583.123
ferns	582.39475	587.311
hemp amaranth	582.663	583.9131
Eupatoriaceae	582.998	583.5544
weed	582.539	584.11
Waterleaf	582.9481	583.764
Waterlilies	582.6711	583.118
Watermolds	582.28112	589.26

	CD	DC
Waterwort Elatinaceae	582.8312	583.161
Philydraceae	582.569	584.35
Wax myrtle	582.625	583.974
Weberaceae	582.3448	588.2121
Wedge-leaved calamites	582.371	587.24
Wellstedioideae	582.9482	583.77
Welwitschiaceae	582.49	585.12
Wheat grasses	582.5421	584.937
White cedar	582.47	585.215
Whitewood canella	582.8421	583.137
magnolia	582.6771	583.114
tilia	582.795	583.19
Tricoccae	582.757	583.951
Whitlow-worts	582.669	583.1544
Whortleberry	582.9124	583.611
Wild		
sweet-william polemonium	582.943	583.7611
silenoideae	582.669	583.153
Willow herb	582.886	583.445
Willows	582.623	583.981
Winged fruit tree	582.825	583.167
pigweed	582.662	583.914
Winteraceae	582.6771	583.1142
Winteranaceae	582.8421	583.137
Winterberry	582.7664	583.2781
Wintergreen	582.9123	583.631
American	582.9124	583.62
Witch hazel	582.725	583.394
Witch's besom	582.28221	589.237
broom	582.28221	589.237
Wittrockiellaceae	582.265	589.47427
Wolffioidcae	582.5472	584.68

	CD	DC
Wood mosses	582.3448	588.21415
sorrel	582.7511	583.224
Woodbine Caprifoliaceae	582.973	583.511
Vitaceae	582.783	583.2792
Wormwood	582.998	583.5537
Wrangeliaceae	582.27517	589.416
Xanthopyreniaceae	582.292	589.16
Ximenia	582.5212	583.26
Xylariaceae	582.28219	589.2351
Xylopia	582.6775	583.115
Xyridaceae	582.557	584.36
Xyridales	**582.55–.56**	**584.3**
Yams	582.5727	584.27
Yarrow	582.998	583.5537
Yeast fungi	582.28223	589.2361
protophyta	582.23	589.91
Yellow jessamin	582.935	583.74
Yellow-eyed grass	583.557	584.36
Yellow-green algae	582.259	589.48
Yellow-wood Leguminosae	582.739	583.322
Rutaceae	582.7519	583.23
Yews	582.47	585.221
Zamiaceae	582.44	585.912
Zingiberaceae	582.58	584.213
Zinnia	582.998	583.5547
Zoosporeae	582.263	589.67
Zoosporineae	582.2644	589.47523
Zoysieae	582.5421	584.923
Zygnematales	582.2623	589.612
Zygomycetes	**582.2812**	**589.28**
Zygophyceae	**582.261–.262**	**589.6**
Zygophyllaceae	582.7517	583.221
Zygosporeae algae	**582.261–.262**	**589.6**
fungi	**582.2812**	**589.27**

2.0 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz1234567890

1.5 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz1234567890

PM-MGP
METRIC GENERAL PURPOSE TARGET
PHOTOGRAPHIC

200 mm

150 mm

100 mm

A5

A4

A3

1.0 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz1234567890

1.5 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz1234567890

2.0 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890

2.5 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890

PRECISION℠ RESOLUTION TARGETS

A&P International
2715 Upper Afton Road, St. Paul, MN 55119-4760
612/738-9329 FAX 612/738-1496

4.5 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890

3.5 mm ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz1234567890

END OF REEL

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